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Koss 6219 7th St. Wash. D.C.

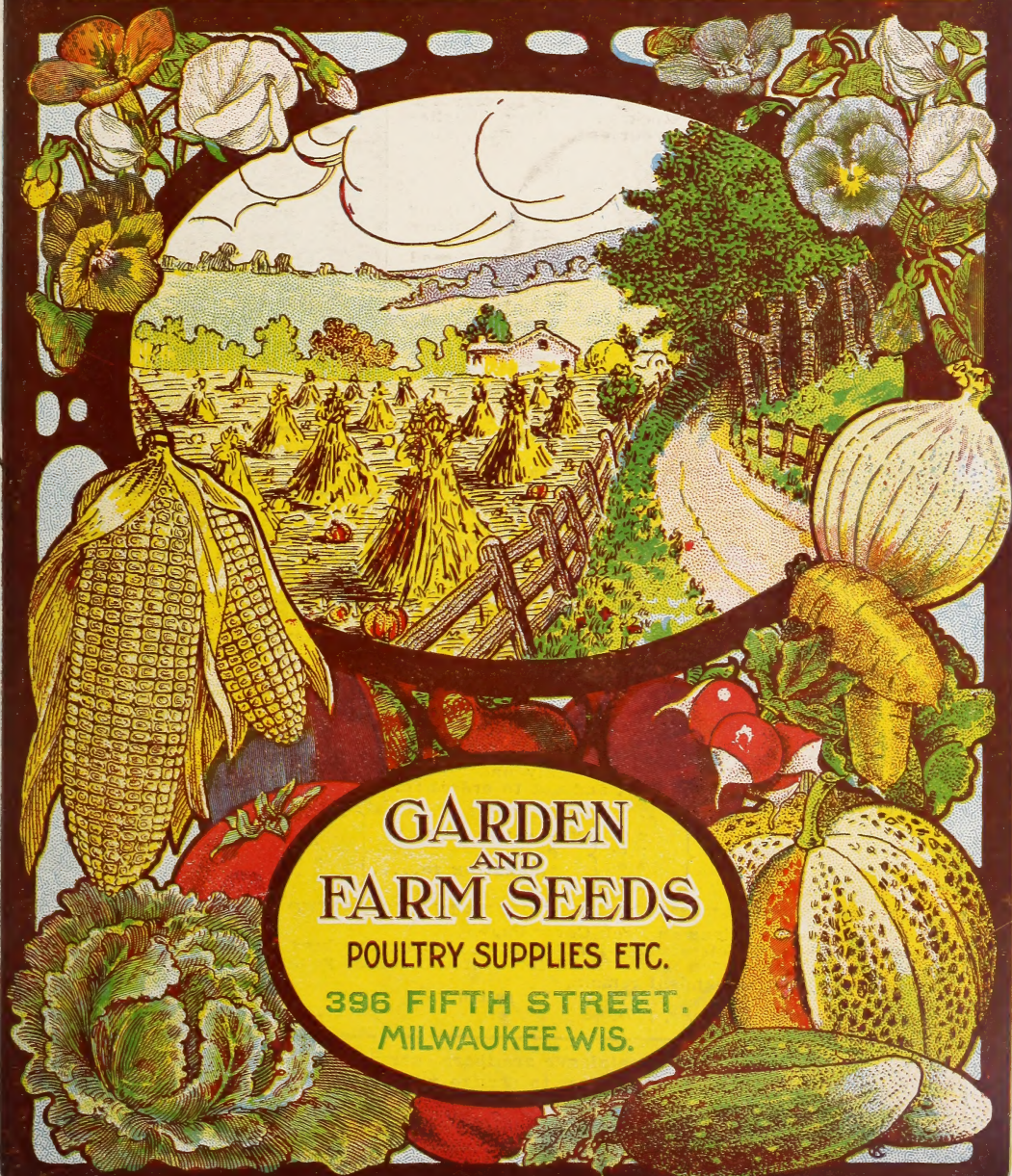
# THEO. KOSS



1908



## CATALOG



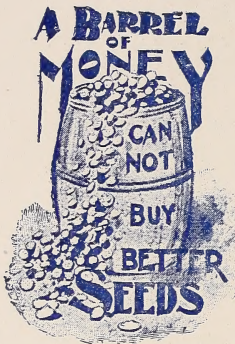
### GARDEN AND FARM SEEDS

POULTRY SUPPLIES ETC.

396 FIFTH STREET.  
MILWAUKEE WIS.



# =1908=



My reputation has been built up by furnishing Seeds of the best quality as to purity and germination, and I shall always endeavor to furnish **THE BEST SEEDS** that can be procured and make prices as reasonable as possible.

I am in a position to furnish good seeds at as low figures as any reliable house. I can and will meet all prices made by any one offering goods of equal value with mine, but I have no ambition to compete with those offering inferior stocks.

Brevity is the soul of business, and allow me to forcibly call your attention to this fact: My Seeds have stood the test of time—for more than eighteen years they have carried the positive assurance that to **Plant Them Wisely** meant to **Reap Bountifully**.

I thank you for your orders of the past, and to please you in the future is my earnest desire. I would ask your most careful consideration of my catalogue, which I feel will prove of interest and value to you.

Since October 1, 1907, I am located at 396 Fifth street, near the vegetable and hay market. This central location gives me better facilities to handle my ever increasing trade.

**POULTRY SUPPLIES**—I want to call your attention to this department of my business and the pages in this catalogue that are devoted to same. I carry the largest and most complete stock of Poultry Supplies in the Northwest, and can fill your orders for anything you want in this line.

## WHAT I GUARANTEE

I guarantee that if I cannot promptly fill your order for any item, that I will at once return the money sent for same.

I guarantee that I will not keep your money, send you "due bill" or substitute something you do not want.

I guarantee that seeds ordered from this catalogue will prove of satisfactory purity and germination to you, or they may be returned at my expense, and the money that has been paid will be cheerfully and promptly refunded without "ifs and ands."

I prefer that remittance be made by Bank Draft, Express or Post Office Money Order, and I Guarantee that money sent in that way will reach me.

I accept postage stamps, currency or coin, but I Do Not Guarantee that money sent in that form will reach me.



"OUR PAPA WANTS AN ORDER FROM YOU"

## SUGGESTIONS TO CUSTOMERS

Cash should always accompany the order. No goods sent C. O. D.

**SEEDS BY MAIL**—All seeds in packets, ounces and quarter pounds will be sent post-paid by mail at prices quoted; on parcels containing more than a quarter pound postage must be added at the rate of 8 cents per pound; on Beans and Peas 8 cents per pint and 15 cents per quart, and on Corn, 6 cents per pint and 10 cents per quart.

**SIGN YOUR NAME AND ADDRESS**—Many orders reach me every season in which the Name and Post Office Address are lacking. It is of course impossible for me to fill these orders until they are identified.

**SHIPPING DIRECTIONS**—Shipping directions should accompany all orders. Where no particular mode of transportation is designated I shall exercise my best judgment, and forward by express, freight or mail, as may seem most advisable.

**USE THE ORDER SHEET AND ADDRESSED ENVELOPE.**

## SPECIAL OFFER

As an inducement to purchasers of my seeds in packets and ounces only, I make this most liberal offer, but I wish it thoroughly understood that it applies to orders for seed in **PACKETS AND OUNCES ONLY**, and not to orders for ¼ pounds, pounds, pints, quarts, or collections.

Purchasers Sending	\$1.00	May Select Seeds in Packets or Ounces Amounting to . . . .	\$1.30
	2.00		2 65
	3.00		4 00
	4.00		5 35
	5.00		6 75

**DELIVERED FREE BY MAIL TO ANY ADDRESS IN THE UNITED STATES OR CANADA.**

See Bargain Collections on Back Cover Page.

I issue a special Wholesale List for Market Gardeners, Truckers, and those buying more than \$5.00 worth of Garden Seeds. Send for it, if this means you.

Awaiting your commands, I remain,

Yours truly,

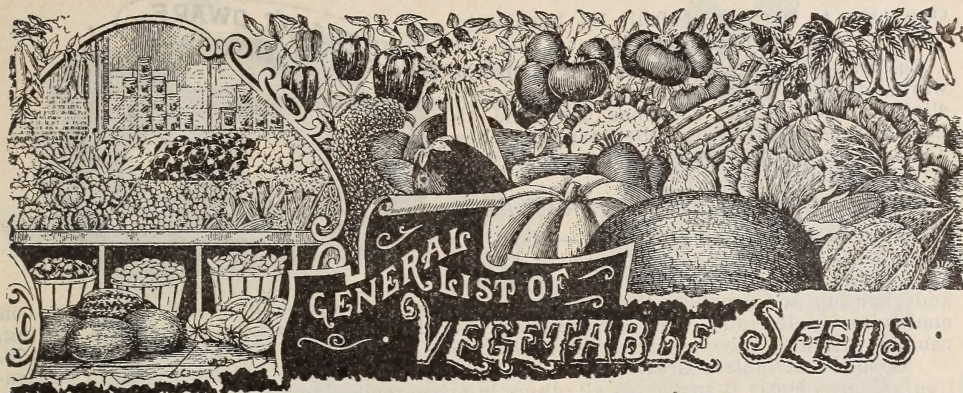
Milwaukee, Wis., January, 1908.

**THEO. KOSS, Seedsman.**

The prices quoted in this catalogue are those current at time of going to press—January 15th, 1908. They are subject to change with the fluctuations of the market without notice.

**THEO. KOSS.**





Comprising all the standard varieties as well as all novelties of real merit. Grown in climates and under conditions best suited to their perfect development.

### ASPARAGUS.

One ounce will sow 40 feet of drill; 4 to 5 pounds an acre.

**Columbian Mammoth White**—A new and distinct variety with pure white shoots of very large and vigorous growth and superior quality, remaining a long time in edible condition. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Palmetto**—Very early and desirable on account of its large size, regular growth, great productiveness and excellent quality. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 50c.

**Conover's Colossal**—A well tried standard variety, large size, quick growth, good quality. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

### ASPARAGUS ROOTS.

Two-year-old roots.

**Columbian Mammoth White**—\$1.00 per 100 by express.

**Palmetto**—75c per 100 by express.

**Conover's Colossal**—60c per 100 by express.



Columbian Mammoth  
White Asparagus.

### BEEETS.

One ounce to 50 feet of drill; 5 pounds to the acre in drills.

**Culture**—The best soil for beets is one that is rather light and thoroughly enriched with manure. For an early supply, sow in spring as soon as the ground becomes fit to work, in drills about 1 foot apart and 2 inches deep. For main crop, sow the first week in May, and for winter use sow in June.

**Edmand's Turnip**—A new and very superior variety. Nearly as early as the Eclipse. The skin and flesh are deep blood red in color, exceedingly sweet and tender, of good market size, round and smooth, with a single tap root, top very small. Cannot fail

to give the highest satisfaction for winter or summer use. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

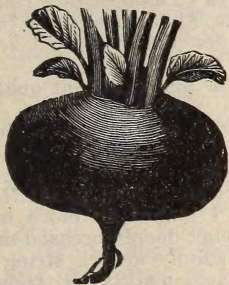
**Crosby's Egyptian**—An improved strain of the Egyptian. While being as early, it is much thicker, smoother, of better color and quality than its parent. A most desirable beet. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 50c.

**Early Blood Turnip**—Tender and a good late keeper. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**Eclipse**—An early variety, globe shaped, smooth, with firm small top, very sweet, flesh fine and dark red color. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**Long Smooth Blood Red**—Tender and sweet, excellent for winter use. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**Swiss Chard or Silver Beet**—A distinct vegetable and much superior to the common beets for greens. If sown at the same time, it will be fit to use before them. Later the plants form broad, flat, beautiful white and wax-like stems to the leaves, which are very delicious cooked as beets, or pickled. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.





## BEANS.

One quart to 100 feet of drill;  $1\frac{1}{2}$  bushels to the acre in drills.

**Culture**—About the first of May select a warm, dry, sheltered spot; dig and manure slightly; make drills 2 inches deep and 18 inch to 2 feet apart; drop the beans 3 inches apart in the drills, and cover not more than 2 inches deep.

### DWARF GREEN-PODDED VARIETIES.

**Improved Early Red Valentine.**—About 10 days earlier than the common Early Valentine. In addition to this it is more robust and vigorous, and produces the true, round, curved pods very abundantly. Unexcelled in quality and uniformity of ripening, nearly the whole crop can be taken at one picking, usually within 35 days after planting. Pkt., 5c; pt., 10c; qt., 20c; pk., \$1.00; bu., \$3.75.

**Burpee's Stringless Green Pod.**—The only stringless green pod bush bean in cultivation. Consequently it surpasses all others in crisp, tender flavor. The finely shaped, long green pods are absolutely stringless, and are ready to market two weeks earlier than the Valentines. It is of immense value, not only to the market gardener, but also to the amateur who seeks a rare quality early for the home table. Pkt., 5c; pint, 10c; quart, 20c; peck, \$1.25; bushel, \$4.75.

**Refugee, or Thousand to One.**—Hardy, yields abundantly, and of fine quality. Pkt., 5c; pint, 10c; quart, 20c; peck, \$1.00; bushel, \$3.75.

**Burpee's Dwarf Lima.**—A dwarf or bush form of the true large lima, which is of great value. They are of perfect form, grow 18 to 20 inches high, of stout and erect growth, yet branching and vigorous. An immense yielder, each bush bearing from 50 to 200 handsome large pods, well filled with very large beans of luscious flavor. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.65.

**Henderson's Dwarf Lima.**—A true dwarf Lima Bean, requiring no support, grows in compact bush form, from 15 to 18 inches high. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.65.

### DWARF WAX BEANS.

**Davis' Kidney Wax.**—The best for market gardeners or canners. In productiveness it is astonishing, as it will produce at least one-third more bushels of pods to the acre than any other wax bean. The pods are long, straight, oval, of clear waxy white color and handsome, often growing from 7 to 8 inches in length, and when fit for use are quite stringless and of fine flavor. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.35; bushel, \$5.00.

**Saddleback Wax.**—The plants are of strong bush growth, 15 inches in height, extra productive. The pods are long, nearly straight, well rounded, and so meaty as to be saddlebacked or creased in the center. The pods are so fleshy that the space between the bean is solid meat without any open spaces, extremely brittle, always stringless, of a rich golden yellow and finest flavor. Pkt., 5c; pint, 15c; quart, 30c; peck, \$1.75; bushel, \$6.75.

**Improved Rust-Proof Golden Wax.**—Exceedingly crisp and tender and of a most delicious flavor. Pkt. 5c; pint, 15c; quart, 25c; peck, \$1.25; bushel, \$4.50.

**Golden Wax.**—An early stringless bean, pod of golden wax color and excellent quality. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.20; bushel, \$4.50.

**Prolific Black Wax.**—Bright, rich yellow in color, very tender, rich and buttery when cooked. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.20; bushel, \$4.50.

### BEANS—Pole or Running. One Quart to 150 Hills.

**King of the Garden Lima.**—Heaviest cropper. Pkt. 5c; pint 20c; quart 30c; pk. \$1.75.

**Old Homestead, or "Kentucky Wonder."**—The pods, usually 7 inches or more in length, are so fleshy that they are greater in width than breadth, being deeply creased or

"saddlebacked." They are solidly meaty, stringless when young, and of finest quality. If pods are gathered as they mature the vines will continue to bear to the end of the season. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.65.

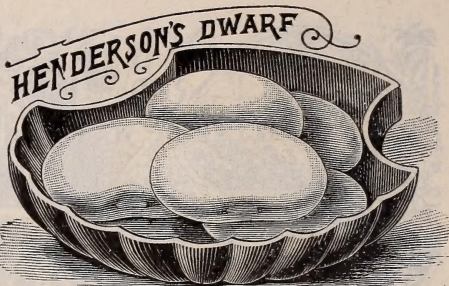
**German Black Wax Pole.**—A superb variety, growing rapidly, very productive, rich golden yellow color, round, full and fleshy. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.65.

**Horticultural Pole.**—Beans round, oval, speckled, popular for private use. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.50.

**Scarlet Runner.**—Cultivated for ornamental purposes. Pkt., 5c; pint, 15c; quart, 30c.

### BEANS—English.

**Broad Windsor.**—Largest and best. Pkt., 5c; pint, 15c; quart, 30c.



Golden Wax Beans.





Culture—Both Mangels and Sugar Beets require deep, well enriched soil. Sow in May or June in rows 18 inches to 2 feet apart, and 3 to 8 inches in the rows. As soon as the frost occurs, dig the crop. About 4 lbs. are required for an acre.

✓ **Prize Long Red**—A popular and very productive variety.  $\frac{1}{4}$  lb., 10c; lb., 20c; 5 lbs., 90c.

✓ **Mammoth Long Red**—An exceptionally large variety and heavy cropper.  $\frac{1}{4}$  lb., 10c; lb., 25c; 5 lbs., \$1.00.

✓ **Golden Tankard**—Color bright yellow, very productive.  $\frac{1}{4}$  lb., 10c; lb., 25c; 5 lbs., \$1.00.

✓ **Champion Yellow Globe**—A favorite round variety.  $\frac{1}{4}$  lb., 10c; lb., 25c; 5 lbs., \$1.00.

✓ **White Sugar Beet**—Grown extensively for feeding stock, also for extraction of sugar.  $\frac{1}{4}$  lb., 10c; lb., 25c; 5 lbs., \$1.00.

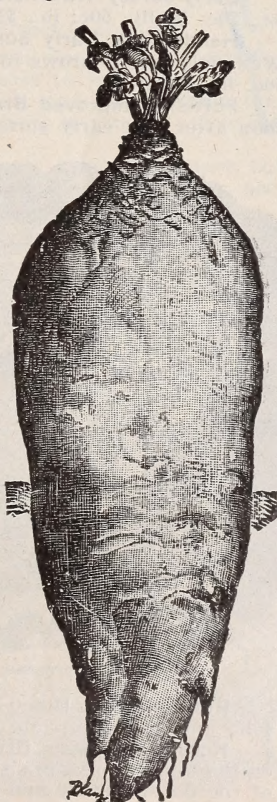
✓ **Klein Wanzleben**—This kind is grown on a larger scale than any other sugar beet. The root is conical, straight and even, quite large at the head and rapidly tapering. It is easy to dig and is a heavy yielder.  $\frac{1}{4}$  lb., 10c; lb., 25c; 5 lbs., \$1.00.

#### BRUSSELS SPROUTS.

One ounce will sow 300 feet of drill.

Brussels Sprouts are being more extensively grown and used. Home gardeners are finding out that this delicious vegetable can be as easily grown as cabbage. Sow in May and manage as Winter Cabbage. In the fall break the leaves down so that the little cabbage will have more room to grow.

**Dwarf Improved**—A fine strain. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 35c.



Mammoth Long Red  
Mangel-Wurzel.



## CABBAGE.

One ounce of seed will produce about 2,000 plants.

Set 8,000 to 10,000 plants to the acre of the early sorts and 6,000 of the large, late kinds.

We pride ourselves on having the best, purest and highest grade of cabbage seed that is offered, or at least it is surpassed by none. Compared with the cost of seed, there is more money in growing cabbage than any other crop and there is nothing that growers should be more particular about.

The cabbage requires a deep, rich soil, and thorough working to insure good, solid, full-sized heads. Sow early sorts in hot-beds in February or March, or in open ground as soon as it can be worked. Later or winter crops in May or June, in shallow drills 6 inches apart. When the plants are 4 inches high transplant into richly manured ground, the early kinds 2 feet apart. The fall and winter varieties three feet apart.

**Early Spring or Flat Parisian**—An extra early flat-headed Cabbage, coming in with Jersey Wakefield. The great value of this extra early Cabbage lies in the fact that it is a true flat-headed sort. Planted on the same day as Early Jersey Wakefield, it was ready to cut with it and produced heads twice the weight of Wakefield. It is very solid and regular in shape, has few outside leaves, and possesses a very fine texture and flavor. On account of its having very small outside leaves, it can be planted as closely as any of the pointed-headed cabbages. No market-grower should be without Early Spring for his first crop. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; 1 lb., \$2.25.

**Early Jersey Wakefield**—Extensively grown, requiring no recommendation. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$1.85.

**Henderson's Early Summer**—A most excellent variety. Twenty days later than the Wakefield, but it grows to fully double the size of the latter. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c; lb., \$1.75.

**Fottler's Improved Brunswick**—An early drum-head of large size, ready for market soon after first early sorts. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.40.



Henderson's Early Summer Cabbage.

The fall and winter varieties three feet apart.



Surehead Cabbage.

**Succession**—(True Stock.) A medium early variety and such a grand keeper, that it is valuable for both early and late use. The largest growers say it is one of the best marketing cabbages ever introduced and I want to add that it is also fine for the home garden. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$1.85.

**Large Late Drumhead**—Large, round and solid. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.40.

**Surehead**—(Genuine Strain.) All head and always sure to head; this very popular variety is rightly named Surehead because it never fails to form a good, solid head, even on poor soil, but the richer the soil the larger and finer the head. It is the finest late cabbage in this country, and the best market variety, and heads the list for winter use. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c; lb., \$1.75.

**Premium Flat Dutch**—The standard winter variety, low growth, heads large, round, solid and flat on top, an excellent keeper. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.65.

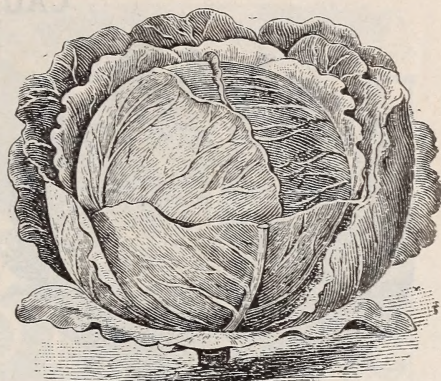
**Koss' Short Stem Drumhead**—(Late). Head very large, hard, solid, round, flattened on the top, uniform in size and shape, often attain 20 to 30 lbs. in weight and are always of the finest quality and a sure header. It has a very short stem and grows very compact, the leaves all turning in to form the head, with very few loose leaves, thus allowing it to be set close together. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00.



## CABBAGE—Continued.

**Luxemburg.**—Also known as Hard Head. Makes a very hard head of large size and extraordinary weight, and is remarkable for its keeping qualities. An excellent sort for late spring use. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.25.

**The Hollander.**—The best cabbage for late spring sales and for shipping. This has become known in the past ten years as the most reliable cabbage for the shipping trade, and has been almost universally used in districts famous for cabbage growing, such as Racine, Wis., Central New York, Michigan districts and others. It is as hard as a rock and a small sized head will weigh more than a large sized head of other sorts. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.



The Hollander Cabbage.

**Early Dark Red Erfurt.**—Early and valuable for pickling. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c; lb., \$1.75.

**Mammoth Red Rock.**—A market gardener's strain of unusual size, color and weight, the result of careful and intelligent selection. It has proven very valuable. Its handsome appearance, large size, solidity and good quality will make it very desirable to all who like red cabbage. Solid and as good a keeper as any red cabbage. Color very dark red. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00.

**Early Dwarf Uim Savoy.**—One of the earliest and sweetest of the Savoys. Heads round, solid; leaves, small, thick, fleshy, of fine deep green color, and of most excellent quality. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c; lb., \$1.75.

**Drumhead Savoy.**—Heads large, round, compact, excellent for winter use. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.60.

## SWEET CORN. Prices subject to change.

One quart will plant 200 hills; one peck will plant an acre in hills.

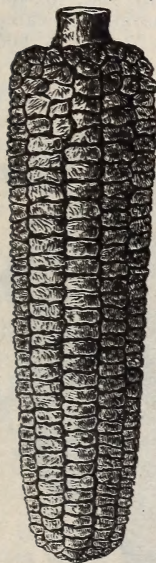
Plant as soon as the ground becomes warm in the spring, in hills about 3 feet apart, five or six grains to the hill, and when up thin them out, allowing three or four of the strongest plants to remain. Give thorough cultivation.

**Cory.**—The earliest, productive, and in great demand. I have both the white and red cob variety. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.25; bushel, \$4.25.

**Early Minnesota.**—Early, very productive, and of excellent quality. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.25; bushel, \$4.25.

**Country Gentleman.**—The most delicious of all sweet corns, the ears are somewhat smaller than the coarser varieties, but for private family use, where quality is preferred to size, it has no equal. Time of ripening is a little later than Stowell's Evergreen. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.60; bushel \$6.00.

**Black Mexican.**—Sweet and desirable for family use. When dry the kernels are black. The corn, when in condition for the table, cooks remarkably white, and is not excelled in tenderness by any other sort. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.25; bushel, \$4.50.



Cory Sweet Corn.

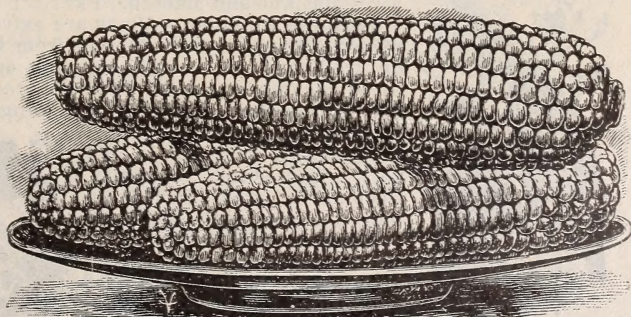
**Stowell's Evergreen.**—An excellent late variety, remaining a long time in a condition suitable for boiling. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.50; bushel, \$5.50.

## CORN—POP.

**Silver Lace.**—This is an exceedingly handsome variety of pop corn. It is a fine popper and produces very heavily. Pkt., 5c; pint, 15c; quart, 25c.

## CORN—FIELD.

(See Farm Seed Department.)



Stowell's Evergreen Sweet Corn.



## CAULIFLOWER.



Early Snowball Cauliflower.

**Early Snowball.**—Throughout the country this is considered not only the earliest of all cauliflowers, but it is more certain to make a head than any other sort. Its dwarf habit and short outer leaves allow it to be planted as close as 18 to 20 inches apart each way, thus making it especially valuable to market gardeners. Our stock is extra choice and cannot be excelled. Pkt., 20c;  $\frac{1}{4}$  oz., 75c; oz., \$2.50;  $\frac{1}{4}$  lb., \$9.00.

**Extra Early Dwarf Erfurt.**—Valuable for forcing. A very popular variety in Europe and with eastern gardeners. First quality. Pkt., 15c;  $\frac{1}{4}$  oz., 60c; oz., \$2.25;  $\frac{1}{4}$  lb., \$8.00.

**Early Paris.**—Well known small variety which usually proves quite satisfactory. Pkt., 5c; oz., 50c;  $\frac{1}{4}$  lb., \$1.75.

**Lenormand's Short Stemmed.**—A late variety of cauliflower. It is of a large size and produces well formed heads of excellent quality. Pkt., 5c; oz., 50c;  $\frac{1}{4}$  lb., \$1.75.

## CORN SALAD OR FETTICUS.

**Large Seeded.**—Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 50c.

## CRESS.

**Extra Curled or Peppergrass.**—The seed should be sown in drills about 15 inches apart, on rich ground and the plants well cultivated. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**True Water Cress.**—Thrives only when its roots and stems are submerged in water. The seed should be sown along the border of small streams. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 90c.

## CUCUMBERS.

One ounce will plant 50 hills; two pounds will plant one acre.

**Improved Early White Spine.**—Fruit 6 to 8 inches long, remaining green longer than any other variety. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Early Frame.**—Early sort for table and pickling, of medium size, straight and handsome. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 55c.

**Boston Pickling.**—Very productive and of superior quality. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Improved Long Green.**—An old standard sort, one foot long. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 65c.

**Koss' Cream City Pickle.**—Early and very productive, flesh crisp and tender, fruit of dark green color, which they retain as pickles. This variety has been grown from my own special stock. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Nichol's Medium Green.**—Exceedingly productive, of medium size and al-



Nichol's Medium Green Cucumber.

ways straight and smooth. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 65c.

**Japanese Climbing.**—Vines are extra strong, and foliage much more vigorous than other sorts, and from its climbing habit can be grown on trellises, etc., saving valuable space. It is very profitable, 40 to 50 cucumbers having been counted on single plants. Flesh thick and of fine flavor. Good for pickling and slicing. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 90c.

**Snake.**—A remarkable and very interesting curiosity. Cucumbers grow curled up like a snake with the head protruding, and some measure 6 feet in length. Grown chiefly as a curiosity and for exhibition. In packets only, each 10c.

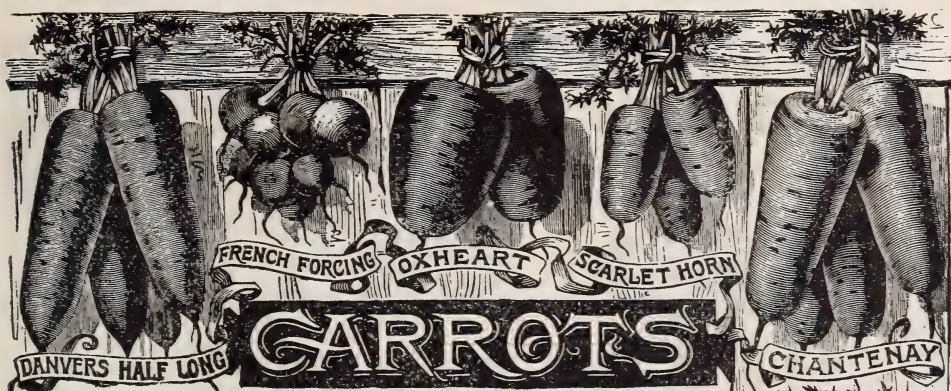


Improved Early White Spine.



Snake Cucumber.





One ounce of seed will sow 100 feet of drills;  
3 pounds will sow an acre.

**Culture**—A good, light, well-enriched sandy loam is the best for this crop. Market-gardeners sow in drills about 18 inches apart, and cultivate by hand. For field culture, sow in drills from 3 to 5 feet apart, so as to cultivate by horse. For early crops, cover  $\frac{1}{2}$  inch deep, thin to 6 inches apart. For late, cover  $\frac{3}{4}$  of an inch.

**Early French Forcing**—Valuable for forcing, roots small and of fine flavor. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Early Scarlet Horn**—An old favorite sort. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Oxheart or Guerande**—Intermediate between the half long and stump varieties. Roots thick, the diameter often exceeding the length. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Chantenay**—As a table variety it is first-class; in shape it is larger than the Scarlet Horn and also broader at the shoulder. The flesh is of beautiful rich orange color, and of the finest quality. It is medium early with small tops, and will give great satisfaction to both the market and private garden. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 65c.

**Nantes**—Half long, stump rooted, color deep scarlet. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Danvers**—Half long orange, one of the most productive. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Improved Long Orange**—May be grown in the garden or as a field crop. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 50c.

**Large White Belgian**—Excellent for stock. Oz., 5c;  $\frac{1}{4}$  lb., 15c; lb., 45c.



### EGG PLANT.

One ounce produces about 1,000 plants.

**Culture**—Sow the seed in the hot-bed or greenhouse about March 1, transplant to 4 inches apart, and when the plants grow thick, transplant to 8 inches apart. Set in the field about May 20.

**New York Improved**—Purple in color, large size and good quality. Pkt., 5c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00.

**Black Pekin**—Round in form, solid and quite early. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 75c.

### ENDIVE.

One ounce of seed to 150 feet of row.

**Culture**—For early use, sow in May, scattering the seed thinly in drills 10 inches apart, covering it lightly, and for succession every two or three weeks until midsummer.

**Broad-leaved Batavian**—More productive than others. Forms large heads of broad, thick leaves. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.25.

**Green Curled Winter**—Very hardy, leaves dark green, curly and tender. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.25.

### GARLIC.

Sets per  $\frac{1}{2}$  lb., 20c; lb., 35c. If by mail, add 8c per lb. for postage.



## CELERY.

**Golden Self-Blanching**—Most important acquisition, and cannot be too highly recommended. The heart is large, solid and beautiful, rich, golden yellow color. It is an excellent keeper. Pkt., 5c; oz., 30c; ¼ lb., 90c; lb., \$3.25.

**Kalamazoo**—This new distinct variety originated with a prominent celery grower of Kalamazoo, Mich., and is pronounced by those who know

it best, "the best perfect type of Dwarf White Celery known." Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.55.

**Hartwell's Perfection**—One of the very best sorts for market, owing to its great keeping qualities. Very solid and never hollow. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.40.

**Evans' Triumph**—This new celery is one of superb quality and one of the best keepers, remaining in condition for use much longer than most sorts. The very large solid stalks are of the finest quality and texture, crisp, brittle, tender and really nutty in flavor. It stands at the head of all late keeping celeries. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.75.

**White Plume**—Requires very little earthing up to blanch it; crisp, solid, and of a nutty flavor. Pkt., 5c; oz., 20c; ¼ lb., 55c; lb., \$1.80.

**Golden Heart**—Very fine when blanched, the hearts are of a rich golden yellow. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**Crawford's Half Dwarf**—Color a yellowish white, very attractive. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.40.

**Boston Market**—A bushy, white, solid, fine market variety. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

**Incomparable Dwarf Crimson**—Dwarf habit, exceedingly solid, fine, dark crimson color. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

**Soup Celery**—(Old Seed.) For flavoring. Oz., 5c; lb., 30c.

## TURNIP-ROOTED CELERY—Celeriac.

**Large Erfurt**—Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

**Large Smooth Prague**—Round, smooth roots, with very few side roots. This is the best and largest variety. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**Apple Shaped**—Roots large, smooth and almost round in shape. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.



Large Erfurt Celeriac.

## KOHLRABI.

### TURNIP-ROOTED CABBAGE.

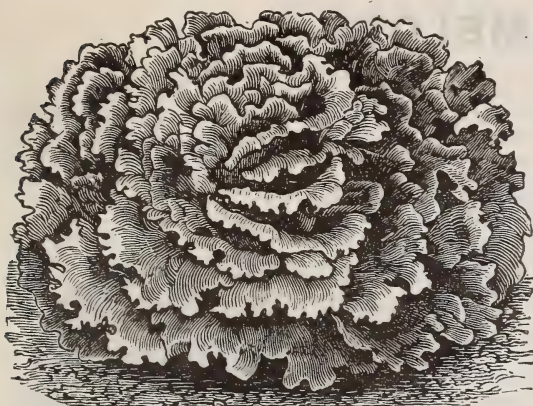
One ounce will sow a drill of about 200 feet.

**Early White Vienna**—The best market variety, tender. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.75.

**Early Purple Vienna**—Different from the above only in color. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.75.

**Large Green**—Used for feeding stock, bulbs large. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.





Prize Head Lettuce.

## LETTUCE.

Sow thinly in rows one foot apart, and when large enough thin out the plants so as to leave room for growth. To obtain good Lettuce all through the season it is necessary to make sowings at short intervals, for Lettuce during the hot months is apt to become bitter and run to seed.

1 oz. to 150 feet of drill.

**Grand Rapids**—There is nothing superior, if it has an equal, for growing under glass. It requires less care, will grow more weight in the same space, is not as liable to rot, and will keep longer without wilting than any other variety. It is of fine appearance, crisp and tender. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

**Tilton's White Star**—A great favorite with market-gardeners. Superior for forcing as well as outdoor planting, splendid shipper, forms enormously large heads, leaves bright green, thick and crisp. This variety retains its fresh appearance longer than many other varieties. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

**Prize Head**—One of the very best varieties; grows to a large size; even the outer leaves are crisp; is slow to go to seed and of fine flavor. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

**Deacon Cabbage**—While this lettuce does not make as large a head as some others, the heads formed are very solid and of excellent flavor, and remain in condition for use as long as any variety in cultivation. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

**All the Year Round**—Hardy, compact and crisp, with small, close heads. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

**Yellow Seeded Butter**—Very crisp and tender. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c;

**Hanson**—Heads green, with white hearts. Large and solid, crisp and tender. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

**Black Seeded Simpson**—A curled variety of unusual merit. Excellent for forcing. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

**Boston Curled**—An excellent early variety for garnishing. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

**Brown Dutch Winter**—A very hardy sort, medium size, fine flavor. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

## KALE OR BORECOLE.

Sow in prepared beds, middle of April to beginning of May and transplant beginning of June, same as cabbage. All the varieties are very hardy, and are best when touched with frost.

One ounce to 1,500 plants.

**Tall Green Curled Scotch**—Finely curled, one of the best sorts. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Dwarf German**—Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

## LEEKS.

One ounce will sow a drill of about 100 feet.

**Large London Flag**—Hardy, strong growing plant, with broad leaves. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 90c.

**Musselburg**—The favorite market variety. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00.



Kale, or Borecole.



Musselburg Leek.



## MUSKMELONS.

One ounce for 60 hills; 2 to 3 pounds in hills for an acre.

Melons thrive best in a moderately enriched light soil, the hills should be from 3 to 6 feet apart each way, according to the richness of the soil. If soil is poor or sandy, plant at 4 feet. Previous to planting, incorporate well with the soil in each hill a couple of shovelfuls of thoroughly rotted manure; plant 8 to 10 seeds in each hill early in May, for latitude of Milwaukee (for south earlier, for further north later), and when well up thin out to three or four of the most promising plants to the hill.

**Tip Top**—A melon I recommend to every lover of this luscious fruit and to every gardener who grows for the market. It is yellow fleshed and of the very best quality. Every melon produced, big or little, early or late in the season, is a good one. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

**Paul Rose**—Is a decidedly new and meritorious variety that is bound to please all classes of melon producers. It is a large "Netted Gem," with deep orange flesh, secured by crossing with the Osage. It is a great producer of extra fine quality melons; as early as the Gems and equally as good a shipper. A good variety for the large grower and equally as good for the small grower for home use. True seed is very scarce this season. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

**Emerald Gem**—This is undoubtedly the finest in flavor of all varieties of musk melon. It is also the earliest to ripen, and while too soft to stand shipping any great distance to market, it is unequaled for home use or nearby markets. Vines of strong vigorous growth and very prolific. If fruits are gathered as soon as they ripen, the vines will continue in bearing throughout the season. The melons are rather small and flattened at both ends. The skin is a rich, deep emerald green, smooth and free from netting. The fruits are heavily ribbed, with narrow bands of lighter green between the ribs. Flesh very thick, with thin rind and small seed cavity, crystalline in appearance, and of a rich salmon color. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00.

**The Princess**—The most delicious melon. The flesh is of a rich salmon color, very thick and sweet. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 80c.

**Osage**—Medium size, very productive and unsurpassed in flavor. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00.



Paul Rose Musk Melon.



**Hackensack**—Deeply netted, very large and productive. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Netted Gem or Rocky Ford**—This has become one of the most popular of small or basket melons. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high flavored. I offer an exceptionally fine stock of this sort, the fruit being wonderfully uniform in shape and quality. Pkt., 5c. oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Grand Rapids**—The earliest large muskmelon. A new, extra early, yellow fleshed sort of handsome shape. It is a most profitable variety to the gardener on account of its size, attractive appearance, and its extreme earliness. Its flavor is not as good as that of the Osage, or other standard melons, but it is ready for market before any other large variety can be picked, and that fact insures ready sales. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 85c.

## MUSTARD.

**White London**—Best for salads. Oz., 5c;  $\frac{1}{4}$  lb., 10c; lb., 30c.

**Brown**—More Pungent than the white. Oz. 5c;  $\frac{1}{4}$  lb. 10c; lb. 30c.

## MUSHROOM SPAWN.

**English**—Per lb., 15c; 10 lbs., \$1.00; by mail, per lb., 25c.

**SLUG SHOT**  
kills the  
**MELON BUG.**  
5 lbs. 30c, 10 lbs. 50c.



## WATERMELONS.

One ounce for 50 hills; 4 to 5 pounds will plant an acre.

**Culture**—A rich, deep, sandy loam, well worked and highly manured with old rotten compost, is of the first importance. Plant, when all danger of frost is over, in hills, 5 or 6 feet apart each way. Scatter a dozen seeds to a hill, and after they are out of danger from bugs, thin to 3 or 4 plants. When they have 4 or 5 rough leaves, pinch off the ends of the main shoots.

**Sweet Heart** — Early, large, handsome, a good shipper and long keeper. Melons oval, heavy and uniformly mottled, very light green. Rind thin but firm, solid and very tender, melting and sweet. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

**Cole's Early**—It is very early and will mature farther north than most other sorts. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

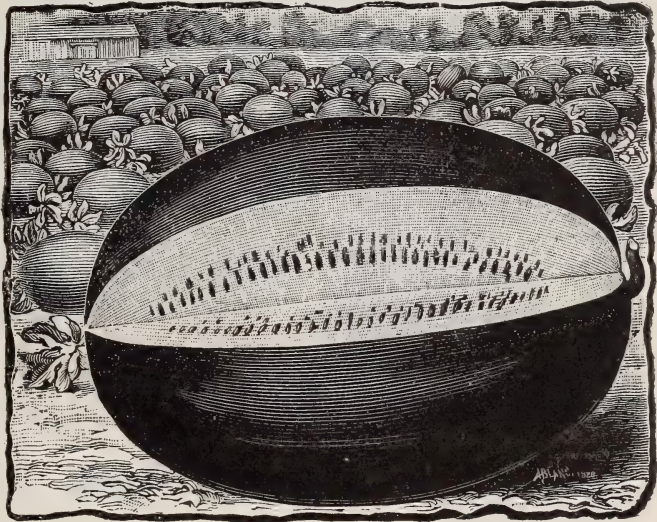
**Kolb's Gem**—Large, delicious and an excellent keeper. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c.

**Citron**—(For preserves). Small, round fruit, makes a beautiful clear, nearly transparent preserve of fine flavor. Pkt., 5c. oz., 10c; ¼ lb., 20c; lb., 55c.

**Dixie**—This melon has excellent merits and I can recommend it to my customers as the best shipping melon grown, being even larger, earlier and far more productive than the Kolb's Gem, which has heretofore been considered the best melon for shipping. Another very important point is its productiveness, having six to eight large melons on a vine. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 55c.

**Cuban Queen**—Flesh bright red, skin striped. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

**Mountain Sweet**—Fruit large, dark green, rind thin, flesh hard, solid and very sweet. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 55c.



## PARSNIPS.

One ounce for 200 feet of drill; 5 to 6 pounds for an acre.

**Culture**—Sow early in spring, in drills 15 inches apart and half an inch deep, in rich, deep soil; thin out to 6 inches apart in the rows.



**Guernsey**—(Improved half long). The roots do not grow so long as those of the Hollow Crown, but are of greater diameter and more easily gathered. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

**Long Smooth or Hollow Crown**—Smooth and large, very tender and sugary; best for general use. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c.

## OKRA OR GUMBO.

**Dwarf White**—Early and very productive. Pkt., 5c; oz., 10c; ¼ lb., 15c. lb., 45c.

**White Velvet**—The pods of this variety are round and perfectly smooth and not ridged like other Okras. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c.

## PEPPER.

**Large Bell or Bull Nose**—Early, mild and pleasant to the taste. Pkt., 5c; oz., 15c; ¼ lb., 50c.

**Ruby King**—Large and handsome, remarkably mild. Pkt., 5c; oz., 20c; ¼ lb., 60c.

**Long Cayenne**—Long, red, hot and pungent; dwarf growth. Pkt., 5c; oz., 15c; ¼ lb., 50c.

## RHUBARB.

**Victoria**—Large and tender. Pkt. 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

**Roots**—10c each, \$1.00 per dozen, by express





## ONIONS.

A strong, deep, rich and loamy soil is most suitable for this crop. The ground should be heavily dressed with well-rotted manure, and plowed a moderate depth, taking a narrow furrow in order to more thoroughly mix the manure with the soil, if possible the plowing should be done in the fall. As early in the spring as the ground is in working order, harrow it thoroughly and make as fine a level as possible; sow thinly in drills one-fourth inch deep and twelve inches apart. Keep the surface of the ground open and free from weeds, but do not ridge up to the growing bulbs. One ounce will sow one hundred feet of drill; 4 to 5 pounds per acre.

**Australian Brown**—A new onion of real merit. The bulb develops very early from seed, and will keep longer than any other onion. It is of medium size, extremely solid, tender, crisp and mild-flavored. The skin is a beautiful amber-brown, and is very attractive. My seed is true to name and of thoroughly acclimated stock. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00.

**Prize Taker or Spanish King**—A globe-shaped variety of recent introduction, remarkable for its enormous size, many specimens reaching the weight of three and one-half pounds each. The skin is of a bright straw color, flesh white, very thick, and of mild flavor. Earliness, uniform shape, productiveness and its long keeping qualities have made the Prize Taker a valuable acquisition. It is to-day one of the largest, hand-somest and most profitable variety grown. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00.

**Extra Early Flat Red**—A variety of unusual early maturity, medium size and of a deep red color. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c; lb., \$2.25.

**Extra Selected Yellow Globe Danvers**—The finest shaped, best colored and largest cropper of any of the yellow onions, and not to be compared with the ordinary stock of Yellow Globe Danvers. Its points of superiority over the ordinary Yellow Danvers are earliness of ripening, smallness of neck, perfect globe shape and uniformity of shape and color. It is an immense cropper and will yield more marketable onions to the acre than any strain ever tried. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.90; 5 lbs. or more, \$2.80 per lb.

**Yellow Globe Danvers**—Ordinary stock. The most popular onion all over the country. Excellent quality, mild flavored, very productive, ripens early, good keeper. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 70c; lb., \$2.80; 5 lbs. or more, \$2.70 per lb.

**Yellow Danvers**—Differing from the Globe strain only in shape, being more flat. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c; lb., \$2.25.

**Large Red Wethersfield**—The leading red onion, deep red in color, and an excellent keeper. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c; lb., \$2.25.

**Mammoth Red Pompeii**—Grows to an enormous size. single onions often weighing from 4 to 5 lbs.; skin pale reddish-brown, flesh white, fine grained, very mild and tender. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.50.



## ONIONS—Continued.



**Mammoth Silver King.**—Of attractive shape, with silvery white skin and flesh of a most agreeable mild flavor. It matures quite early and reaches a much larger size than any other of the flat white varieties; frequently measuring twenty inches in circumference, and weighing from three to five pounds when well grown. They must be sown thinly to produce large onions. We do not hesitate to recommend it as one sure to please the grower. True American grown seed. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c; lb., \$2.25.

**White Portugal or Silver Skin.**—Extensively grown for pickling. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.90.

**White Queen.**—A rapid grower, white skin, early and excellent for pickling. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c; lb., \$2.25.

**Southport White Globe.**—The leading white onion, of mild flavor and a good keeper. Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., 1.20; lb., \$4.00.



White Queen Onion.

**Southport Red Globe.**—Differs from the preceding only in color. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.55.

**Southport Yellow Globe.**—A handsome variety of large size. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.55.

**Extra Early White Pearl.**—A very fine new Italian variety that grows quickly to a good marketable size. The bulbs are round, flattened with a delicate, pure white skin. Flesh very mild and pleasant in flavor. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00.

## ONION SETS.

Indispensable for early onions for bunching, as in a very few weeks they are ready for the table. While it is much cheaper to grow onions from seed, still it is considerable work to keep them weeded, and many of our customers who have only a small garden, prefer to grow them from the sets and gardeners plant sets for the early market.

**White Bottom Sets.**—White onion sets grown from seed are the most popular and best for early use and large onions. Pt., 15c; qt., 25c.

**Yellow Bottom Sets.**—Like the White, except color. More used than any other kind. Pt., 10c; qt., 20c.

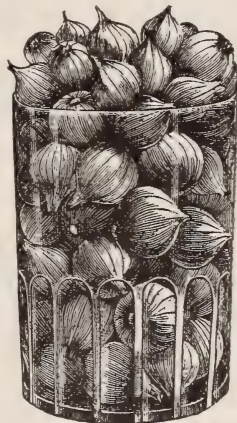
**Red Top or Button Sets.**—Still largely called for in some sections. Pt., 10c; qt., 15c.

If by mail add 6c per pint and 10c per quart to above prices.

Write for special prices on larger quantities.

## CHIVES. Schnittlauch.

Very small hardy onions, used for salad. Per clump, 15c; by mail 25c.



Onion Sets.

## PARSLEY.

One ounce will sow 150 feet of drill.

**Culture.**—Sow early in spring in drills 14 inches apart, and thin to 6 or 8 inches. Cover half an inch deep.

**Extra Curled Emerald Dwarf.**—Dwarf, with bright green leaves finely cut and curled; very ornamental. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 50c.

**Champion Moss Curled.**—The leaves are very finely curled and moss like. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Plain Leaved.**—Hardier than the curled varieties. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.



**Hamburg or Turnip Rooted.**—The roots are used for flavoring. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 50c.



## PEAS.



One quart will plant about 100 feet of drill; 2 to 3 bushels per acre.

Peas mature quickest in light, dry soil, not too rich. May be sown as early as the ground can be worked, and for a succession every two weeks up to July, or what is better, select several kinds which will form a succession in maturing. Sow in drills two to four feet apart, according to varieties, and 3 to 4 inches deep for general crop, although the first earlies will come to maturity sooner if only covered 1½ inches. Wrinkled sorts are marked \*. They should be sown thicker in the rows than the smooth varieties, as they are more liable to rot if the ground is wet. Crop is quite short this year.

### EARLY VARIETIES.

**Alaska**—One of the very best extra early market varieties. Pods of perfect shape and good quality. Pkt., 5c; pint, 10c; quart, 20c; peck, \$1.20; bushel \$4.50.

**Koss' Extra Early Market**—Unequaled for excellence, yield, size of pod and regularity of growth. Emphatically the pea for market gardeners and truckers. It is a wonderful bearer, produces pods of good size, which ripen so evenly as not to require more than two pickings to clear off the crop. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.35; bushel, \$5.00.

**\*Gradus (Prosperity)**—A very famous new pea. Extra early, and in fact the earliest large-podded pea in cultivation. Grows 3 feet high, produces uniformly large pods, from 4 to 4½ inches long, well filled with large handsome peas. Quality superior, with most delicious flavor. Pkt., 10c; pint, 20c; quart, 35c; peck, \$2.25; bushel, \$8.50.

**\*Nott's Excelsior**—Is fully as sweet and delicious as the American Wonder and the pods are larger. It is far more productive than the Little Gem and is within a few days as early as the first early smooth peas, having matured in forty-three days. Pkt., 5c; pint, 15c; quart, 30c; peck, \$1.60; bushel, \$6.00.

**\*American Wonder**—Early, very productive and of the very best quality. Pkt., 5c; pint, 15c; quart, 30c; peck, \$1.60; bushel, \$6.00.

**\*McLean's Little Gem**—A dwarf prolific, green wrinkled variety, early. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.50; bushel, \$5.75.

**Tom Thumb**—Very dwarf and early, of excellent quality, yields abundantly. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.50; bushel, \$5.75.

**\*Horsford's Market Garden**—A most prolific bearer, pods medium size, numerous and well-filled with peas of delicious flavor. Somewhat later than the Little Gem. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.20; bushel, \$4.50.

**Dwarf Sugar, Edible Pods**—Early, used like snap beans or shelled. Pkt., 5c; pint, 15c; quart, 30c; peck, \$1.75.

### GENERAL CROP VARIETIES.

**\*Telephone**—An extraordinary cropper, bearing immense semi-double pods, full of large peas of exquisite flavor. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.85; bushel, \$7.00.

**\*Juno**—The best wrinkled main crop pea in the market today. Vines robust in growth, pods stout, straight and usually borne in pairs. The pods are thick and well filled with delicious, large, sweet, dark green peas of the finest quality. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.35; bushel, \$5.00.

**\*Improved Stratagem**—The best variety for general crop. Pods of immense size, many measuring five and one-half inches in length and containing as many as 10 large, fine-flavored peas. Pkt., 5c; pint, 15c; quart, 30c; peck, \$1.75; bushel, \$6.50.

**\*Champion of England**—An old favorite. Pkt., 5c; pint, 10c; quart, 20c; peck, \$1.00; bushel, \$3.75.

**Black Eyed Marrowfat**—Excellent for either garden or field culture. Pkt., 5c; quart, 15c; peck, 75c; bushel, \$2.50.



American Wonder Peas.



## PUMPKINS.

One ounce for 20 hills; 2 lbs. for an acre.

**Culture**—Sow in good soil in May, in hills 8 to 10 feet apart each way; or in fields of corn about every fourth hill. Avoid planting near other vines.

**Calhoun**—Gives the highest satisfaction. Outside color creamy brown, inside flesh deep salmon yellow; wonderfully thick and fine-grained; seed cavity very small. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Large Cheese**—Flat shaped, flesh yellow, fine grained and sweet. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**Mammoth Tours**—Of enormous size, flesh salmon colored, very productive and of excellent quality. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Jonathan**—This is one of the finest varieties ever introduced; a good keeper, large size, very sweet and finest of all for pies. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 65c.

**Connecticut Field**—Standard sort for field culture. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 25c. 3 lbs., 60c.



Mammoth Tours Pumpkin.

## SALSIFY (Vegetable Oyster).

One ounce for 50 feet of drill.

**Culture**—Sow early in drills 18 inches apart and two inches deep; thin to 4 or 5 inches apart. The roots are best after frost has touched them.

**Large White**—Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Mammoth Sandwich Island**—Twice as large as the preceding, pure white, very tender and delicious. Invaluable for market gardeners. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00.

**Scorzoneria, or Black Oyster Plant**—Treatment same as salsify, which it closely resembles, except that the skin is black. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.40.

## SPINACH.

One ounce will sow about 80 feet of drill; 10 pounds to the acre.

This is the finest "greens" of any plant in cultivation. For summer, sow early in spring in deep, rich soil, in drills one foot apart; cover one inch. Sow at intervals of two weeks throughout the season. For very early spring use, sow the winter varieties first of September, and protect by covering with straw.

**Long Standing**—Standard with gardeners. Leaves thick, fleshy and crumpled; slow in running to seed: leaves round, large and of a dark green color. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 20c; 5 lbs., 70c.

**Round Leaf**—Excellent market sort, equally good for spring or fall sowing, leaves large, thick and fleshy. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 20c; 5 lbs., 65c.

**New Victoria**—Quick to mature, forms very large, exceedingly thick leaves, savoyed in the center. It remains in condition for use much longer than most kinds and cannot fail to please. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 20c; 5 lbs., 70c.

**Bloomsdale Savoy Leaved**—The leaves are wrinkled like Savoy Cabbage. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 20c; 5 lbs., 75c.

**Prickly Seeded**—Triangular, arrow shaped leaves, one of the hardest and generally used for fall planting. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 20c; 5 lbs., 65c.



Victoria Spinach.

## TOBACCO.

**Connecticut Seed Leaf**—Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c.

**Imported Havana**—Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c.







Early Scarlet  
Globe Radish.

## RADISH.

One ounce will sow 100 feet of drill; 8 to 10 lbs. will sow one acre in drills.

Radish seed should be sown in light, rich soil as early as the ground can be worked, and for a succession, at intervals of two weeks until midsummer. Radishes must be grown quickly and have plenty of room or they will invariably be tough and pithy. Sow in drills one foot apart and thin to two or three inches apart as soon as the rough leaves appear.

**Early Scarlet Globe**—A most excellent early radish for garden culture, and for hotbed forcing there is no variety so desirable as the Early Scarlet Globe. It is the earliest; its color is the handsomest; in flavor it is the mildest, most crisp, juicy and tender. It is the market gardener's favorite as a forcing radish. It forms small top, and will stand a great amount of heat without becoming pithy. Per pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Ne Plus Ultra**—Remarkably fine in quality, of very quick growth, and ready to pull within twenty days after sowing. Perfectly globular little roots, of very bright color and excellent shape; certain to insure ready sale on the market. Per pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Extra-Early Scarlet Turnip, Forcing**—Of medium size, bright scarlet; quality superior. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**White Tipped Scarlet Turnip (Rosy Gem)**—This is an early variety of medium size of excellent flavor, and of very handsome appearance. Color deep scarlet, tipped with white. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 45c.

**Early Scarlet Turnip**—An excellent early round, red radish. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 45c.

**French Breakfast**—An olive shaped white tipped variety. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 45c.

**White Summer Turnip**—A well known standard sort. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 45c.

**Gray Summer Turnip**—Excellent for summer use, mild. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 45c.

**Yellow Summer Turnip**—Withstands the heat and drought of summer well. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 45c.

**Long White Vienna, or Lady Finger**—Skin and flesh pure white, mild, sweet, crisp, brittle, of quick growth. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 50c.

**Chartier**—Color at the top bright crimson, shading to pink at the middle, and running to pure white at the tip. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**White Strasburg**—This grows to the largest size and is usable when quite small, thus covering a long season. The mature roots are 4 to 5 inches long and about 2 inches thick, very white; the flesh is exceedingly crisp and tender. One of the best of the large summer sorts. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 50c.

**Long Scarlet Short Top**—A favorite sort. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 45c.

**Rose China Winter**—Very popular with market gardeners. Form conical, very smooth and of a bright rose color. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Long White Spanish**—Root long, top-shaped, retaining the same diameter for two-thirds of its length, sharply conical at the base, and when full grown measuring seven or eight inches in length, and about three inches in diameter. Flesh white, solid and pungent. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 50c.

**Round Black Spanish**—Roots round, sometimes top-shaped, three to four inches in diameter; skin black, flesh white, very compact and highly flavored. An excellent sort for winter, as the roots keep a long time. Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 20c; lb., 50c.

**Long Black Spanish**—One of the latest as well as the hardiest of the radishes; an excellent sort for winter use. Roots oblong, black, of very large size and firm texture. Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 20c; lb., 50c.

**Mixed Radishes**—A mixture of about twelve choice varieties of early, medium and late radishes. This will give you radishes all summer, and you will be surprised at the results. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 50c.



White Strasburg Radish.



## SQUASH.

One ounce early varieties will plant about forty hills;

One ounce late will plant about twenty hills;

3 to 4 pounds to the acre.

**Hubbard.**—The leading squash for fall and winter use, hard skinned, flesh dark yellow, fine grained, dry, sweet, rich. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Warty Hubbard.**—This new strain of the Hubbard is an improvement. The wartiness indicates a very hard shell, which is one of the best features of a long keeping squash. It also denotes extra choice quality; the harder and more warty the shell of a Hubbard, the more delicate and sweet the flesh. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 65c.

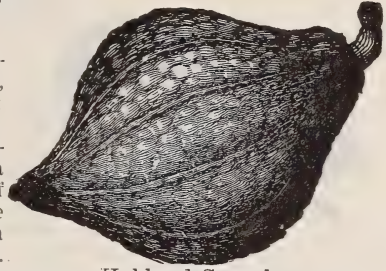
**Sibley.**—An excellent variety, flesh solid, thick and richly colored. Ripens about the same time as the Hubbard. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Summer Crook Neck.**—Early, productive, and of good quality. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

**Marblehead.**—A very good winter squash, similar to the Hubbard. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 55c.

**White Bush Scalloped.**—Light cream color, large, flat, scalloped shaped, early. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 55c.

**Boston Marrow.**—A winter variety of excellent quality. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 55c.



Hubbard Squash.

## TOMATOES.

One ounce will produce about 1,200 plants.

**Spark's Earliana.**—This is the earliest smooth, bright red tomato of good size now in cultivation. Plants are quite hardy, with rather slender open branches and moderate growth, well set with fruits, nearly all of which ripen very early in the season. The tomatoes are deep scarlet, generally smooth, and grow in clusters of five to eight, averaging two and a half inches in diameter. Flesh deep red and of slightly acid flavor. Pkt., 10c;  $\frac{1}{2}$  oz., 20c; oz., 35c;  $\frac{1}{4}$  lb., \$1.10.



**Atlantic Prize.**—Comes in advance of such standard kinds as Acme, Beauty, etc. It bears in clusters, is of good size, smooth, round and of fine scarlet color. Choicest seed from specimen fruits. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c.

**Buckeye State.**—A fine new, extra large Livingston sort, nearly one-half larger than Beauty, deep color, smooth, heavy and of splendid quality. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c.

**Bond's Early Minnesota.**—Most of the extra early varieties are irregular in shape; this is always round and smooth. Vines vigorous, with rather small leaf; fruit of medium size, of good shape, and dark red color. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c.

**Stone.**—Vine vigorous and productive. Fruit round, apple shaped, large, very deep red in color and astonishingly heavy. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c.

**Dwarf Champion.**—Its habit of growth is peculiar, for not only is it dwarf and compact, but the stem being thick, stiff and short-jointed, it is actually self-supporting when laden with fruit. The fruit is of a purplish pink color, always smooth, and the flesh solid and of fine quality. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c.

**Yellow Plum.**—Good for preserving and pickling, plum shape, solid and smooth. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 60c.

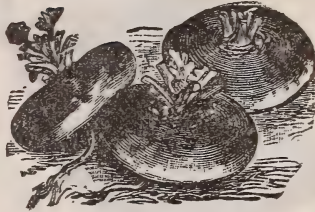
**Acme.**—Early, medium size, very solid and productive, dark red, slightly tinged with purple. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c.

**Livingston's Beauty.**—A very fine variety of large size, grows in clusters of four or five. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c.



## TURNIPS.

One ounce for 150 feet;  
two pounds to the  
acre.



**Culture**—For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart. Rutabagas 30 inches. Thin plants of early varieties

Early Purple Top Munich Turnip, to 6 inches apart, and the Swedes to 1 foot apart. For fall and winter use, the early kinds should be sown from July 15 to August 15. Swedes from June 15 to July 15.

**Early Purple Top Munich**—A German variety, remarkably handsome, very early with purplish red top, flesh snow white and of fine flavor. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 45c.

**Red Top White Globe**—This is the largest yielder on the list and very desirable for table use or stock. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**White Egg**—A rapid growing variety, egg shaped. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 45c.



**Yellow Aberdeen**—Hardy and productive, good keeper, color pale yellow. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**Early Flat White Dutch**—Standard variety, good marketable size, pure white, small top, with but few strap shaped leaves. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**Long White, or Cow Horn**—This variety is carrot-like in form, growing nearly half out of the ground and generally slightly crooked. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**Purple Top Strap Leaf**—A well known popular variety, either for table or stock. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 35c.



Imperial Hardy Swede Rutabaga.

## RUTABAGA (Swedish Turnip).

**Imperial Hardy Swede**—Flesh orange yellow, of firm texture, very sweet, mild and well flavored. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**White Sweet German**—Large size, oval form and very solid, flesh pure white and sweet. This is the best keeping variety. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**Skirving's Improved Purple Top**—A very popular variety; flesh firm, yellow, sweet and finely flavored. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c.

## SWEET, POT AND MEDICINAL HERBS.

Herbs in general love a mellow and free soil. The chief points are to cut them on a dry day, when not quite in full bloom, and to dry them quickly in the shade, and when dry pack close in dry boxes, keeping them entirely excluded from the air.

	Pkt.	Oz.		Pkt.	Oz.
Anise .....	5c	10c	Marjoram, Sweet...	5c	10c
Basil, Sweet .....	5c	15c	Rosemary .....	5c	25c
Caraway .....	5c	10c	Sage .....	5c	15c
Coriander .....	5c	10c	Saffron .....	5c	10c
Dill .....	5c	10c	Savory, Summer...	5c	10c
Fennel .....	5c	10c	Thyme .....	5c	20c
Horehound .....	5c	25c	Wormwood .....	5c	20c
Lavender .....	5c	15c			



Marjoram.



## VINE PEACH.

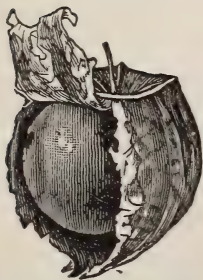


The vine is somewhat similar to the muskmelon vine, and requires the same cultivation. The fruit is of a bright orange-yellow color, somewhat russeted. For sweet pickles, pies or preserving, they are superb. Can be used in every way in which you would use a peach except that they are not usually liked raw. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c.

## GARDEN LEMON.

Fruit is of the shape shown in our engraving, is somewhat smaller than Vine Peach, has thinner flesh, and is decidedly more acid, thus dispensing with the sliced lemons which are so important in putting up the Vine Peach. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c.

## GROUND CHERRY.



Ground Cherry.

Improved Yellow — They grow well on most any dry soil; are easier raised than the tomato, and are prolific bearers, and oh! such luscious fruit. For sauce they are excellent, and for pies nothing can equal them for taste and flavor. They are delicious as preserves, and when dried in sugar are much better than raisins for cakes and pudding. Pkt., 5c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

## CHUFAS OR EARTH ALMOND.

In sweetness and flavor they resemble the coconut or almond and are considered very nice put on the table in a fruit dish with candies, as an after-dinner relish. Very prolific, a single one yielding from two to four hundred. The nuts grow underground, very near the surface. Plant in April, 10 inches apart, in  $2\frac{1}{2}$  foot rows. Cover them lightly. If seed is very dry, soak well before planting. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 50c.

## RED CROSS PEANUTS.

As early as the earliest, and of the best quality. Boys, here in a chance for you. Think of growing peanuts in your own garden and having plenty of them to eat. Shell the nuts carefully so as not to break the inside skin, and plant as soon as the ground becomes warm, from two to three feet apart each way, four or five in a hill, covering two inches. The soil should be deep and mellow. Large pkt., 10c; lb., 40c, postpaid.

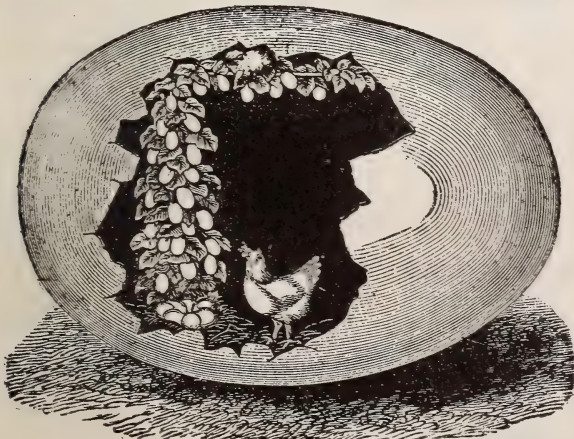


## JAPANESE NEST EGG GOURDS.

Grows almost uniformly to the size, color and shape of a hen's egg. The shells are hard and make the very best nest eggs, as they do not crack. The largest ones when sawed in two make excellent pots for starting tomato, strawberry and other plants. Pkt., 5c; oz., 15c.

## SPECIAL OFFER

One packet each of Vine Peach, Garden Lemon, Ground Cherry, Chufas, Red Cross Peanuts and Japanese Nest Egg Gourds for **ONLY 25c.**



Japanese Nest Egg Gourds.





Realizing the vast importance of this branch of our business, we devote our careful attention to the growth and selection of the best farm seeds of all sorts.

### TRUE DWARF ESSEX RAPE.

Dwarf Essex Rape, of the true biennial variety, is now largely grown in this country on account of its rapid growth, being ready to feed in eight to ten weeks from sowing, and producing 25 to 30 tons of green forage to the acre. It grows to a height of 3 feet and covers the surface so densely as to smother out all weeds. It can be sown all through the season, being perfectly hardy, withstands drought, and will produce a crop in any soil by sowing broadcast at the rate of five to ten pounds to the acre. Lb., 10c; 10 lbs., 75c; 25 lbs., \$1.60; 100 lbs., \$6.00.

### RUSSIAN FLAX.

It will pay you to sow nice, pure high grade flax seed; it is one of the most profitable crops, especially on new land. Peck, 50c; bushel, \$1.65.

### WILD RICE.

The only one of our native plants furnishing food for wild fowl, ducks, geese, etc. Sow in water having a mud bottom. Pkt., 5c; lb., 20c; 5 lbs., 85c.

### SUCAR CANE.

Early Amber.—The earliest and most popular variety, and makes the finest quality of amber syrup and excellent sugar. Lb., 5c; 10 lbs., 40c; 100 lbs., \$3.50.

### THOUSAND-HEADED KALE.

The seed can be sown early in April or any time thereafter until mid-summer. The plants grow to a height of 3 to 4 feet, and are so covered with small whorls of leaves that the name Thousand-Headed Kale has been given it. Per large pkg., 5c; ¼ lb., 10c; lb., 35c. postpaid. By express, 5 lbs. or more, at 25c per lb.

### FIELD PEAS.

Prices subject to market changes.

**Scotch Beauty Peas**—Best blue field peas. Will yield an immense crop of superior quality. Per peck, 60c; bu., \$2.25; 2 bu. or more, \$2.00.

**White Canada Peas**—More used than any other. Per peck, 60c; bushel, \$2.00; 2 bushels or more, at \$1.85.

**Whip-Poor-Will Cow Peas**—The vines when fed green make the best fodder and are very nourishing. When ripened the ground peas make the best cattle fattener. Peck, \$1.00; bushel, \$3.75.

**Lathyrus Sylvestris (Flat Pea)**—A perennial forage plant; it grows well on unimproved sandy soil; yields superior forage for all farm stock and excellent as a fertilizer. Oz., 15c; ¼ lb., 40c; lb., \$1.35.

### BOSTON PEA OR NAVY BEANS.

Plant after the danger of frost is past, in dry, light soil. Best crops are grown in rich soil; but beans do well in ordinary soil. Plant 1½ bushels to the acre in hills, same as corn, or in drills. Hand picked. Quart, 15c; peck, \$1.00; bushel, \$3.50.

**Lentils**—A leguminous annual. Succeeds best in dry, sandy soil. Splendid pigeon food and also used extensively for soups. Lb. 25c.

**Lupins, Yellow**—Succeeds well in the poorest soil, and is exceedingly valuable for plowing in to improve sandy soils. Sow in the Spring when the ground has become warm, at the rate of 90 pounds to the acre. Lb., 10c; 10 lbs., 80c; 100 lbs., \$7.50.



## Seed Oats.

**Swedish Select**—"Swedish Select Oats, a pedigree variety introduced from Russia, now probably the best American Oat." This was the inscription for this variety in the cereal exhibit made by the United States Department of Agriculture at the late St. Louis Exposition. This beautiful Oat, which is now well acclimatized, weighs from 36 to 40 pounds per measured bushel. It outyields all others that have been tested. The straw is coarse, noted for its stiffness and power to withstand lodging. The grains are pure white in color, large, thick and plump, making a very handsome appearance. Peck, 30c; bu., \$1.00; 5 bu. or over, at 90c per bushel.

**Early Champion**—Has comparatively short straw, matures a week or ten days earlier than other kinds, thus largely escaping the liability to rust. Its greatest value lies in its special adaptability as a nurse crop to sow with grass seed, as it does not stool as freely as some other sorts. Will not lodge on rich land. Price, per peck, 25c; bu., 90c; 10 bu., or more, at 80c.

**Golden Fleece**—This is a very fine Oat, originated in New York state and introduced in 1901. It is a heavy cropper, handsome sample, grains white and plump; strong straw, stand up well. Peck, 25c; bu., 85c; 5 bu., \$4.00; 10 bu., \$7.50.

## Spring Wheat.

**Saskatchewan Fife**—This Wheat is pronounced by the great milling kings of the Northwest the best. Fifty bushels to the acre is not an uncommon yield. Peck, 50c; bu., \$1.75.

**Macaroni, or Durum**—This newly imported Wheat sent out by the Department of Agriculture has taken a strong hold in the West, where Spring Wheats are in vogue, and where it outyields by far any other variety. It makes an excellent quality of flour for bread; and it is practically immune from rust. Peck, 50c; bu., \$1.75.

## Speltz or Emmer Wheat.

A most wonderful new grain, somewhat similar to wheat. Will thrive on most any soil and yields immensely, very often more than barley and oats. It has given good satisfaction to my customers, and every farmer should try it. Peck, 35c; bu., \$1.25.

## Buckwheat.

**Silver Hull**—A greatly improved variety. It is in bloom longer, matures its crop sooner, and yields twice as much as any ordinary sort; the grain is rounder, of a beautiful light gray color. The flour is white and more nutritious. Peck, 35c; bu., \$1.25.

**Japanese**—Ripens a week earlier than Silver Hull, stands up well, and makes better flour than any other kind of buckwheat. Peck, 35; bu., \$1.25.

## Spring Rye.

Valuable as a "catch" crop to sow where winter grain has failed. Peck, 35c; bu., \$1.25.

## Oderbrucker Barley, Wis. No. 6.

A new Barley introduced by the Wisconsin Agricultural Experiment Station in 1906. The heaviest yielding and plumpest 6-Rowed Barley ever introduced into the United States. Peck, 50c; bushel, \$1.75.

## Mandscheuri Barley.

An early six-rowed variety, maturing in 80 to 90 days from time of sowing, very strong strawed and stools well, bearing large, well-filled heads of beautiful plump berried grain, possessing malting qualities of a high order, and adapting itself readily to a wonderful variety of soils. Peck, 40c; bushel, \$1.50.



Swedish Select Oats.



## MILLETS.

There is nothing like millet to cover up shortage in your hay crops. It can be sown up to the middle or end of July and makes a valuable catch crop. Grain bags 15 cents each extra. Prices subject to market changes.

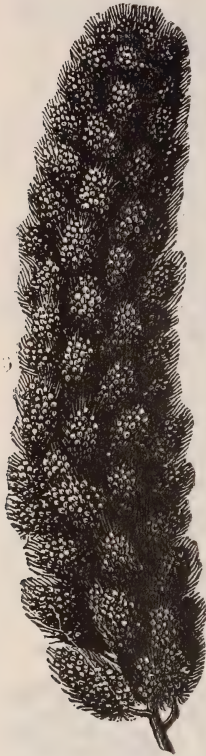
**Common Millet**—Very early, grows 2 to 3 feet high, foliage broad. Lb., 5c; 5 lbs., 20c; 10 lbs., 35c; bu., \$1.25.

**Hungarian (Grass) Millet**—A valuable forage plant, similar to common millet. Lb., 5c; 5 lbs., 20c; 10 lbs., 35c; bushel, \$1.30.

**Hog Millet**—A valuable variety, maturing at the same time as Hungarian Grass; very productive. Lb., 5c; 5 lbs., 20c; 10 lbs., 30c; bushel, \$1.10.

**German Millet**—Much better than Common Millet as it will produce double the crop. It grows 4 to 5 feet high, very leafy, seeds round, golden yellow. About two weeks later than Common Millet. Our Seed is southern grown and is much superior to northern grown seed as it yields more. Sow  $\frac{1}{2}$  bushel per acre. Price, best grade, lb., 5c; 5 lbs., 20c; 10 lbs., 35c; bu., \$1.35.

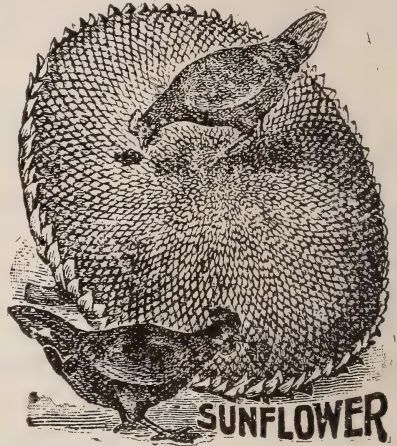
**Japanese Millet (Crus Galli)**—Perhaps the most valuable introduction of recent years in the line of forage plants. Adapted to all sections and a great success wherever tried. It is very highly recommended by the U. S. Agricultural Department and by the Experiment Stations. It grows 6 to 8 feet high and produces immense crops of splendid feed, especially on moist soils. As high as  $16\frac{1}{2}$  tons have been reported from one acre, and it makes excellent hay, superior to corn fodder. Sow broadcast, 12 to 15 lbs. per acre. 1 lb., 8c; peck, 50c; bushel, \$1.75.



German Millet.

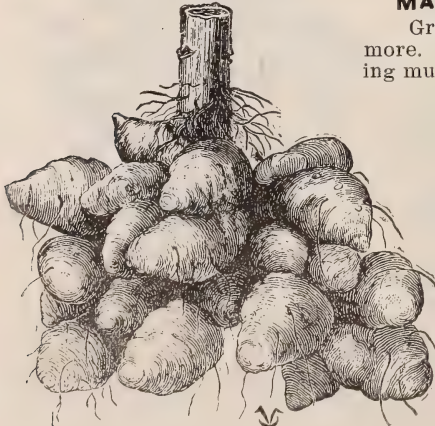
## SUNFLOWER.

**Mammoth Russian**—The largest of all sunflowers. This is without doubt one of the best paying crops that can be raised. Seeds are the best of food for poultry and is much cheaper to raise than corn. Stalks, which grow very large, make excellent fire-wood. It is also said to afford protection against malaria. Lb., 10c; 3 lbs., 25c; 10 lbs., 65c.



## MAMMOTH WHITE FRENCH ARTICHOKE.

Grow much larger than the Jerusalem and yield more. Just as good otherwise. Artichokes are attracting much attention of late on account of their healthfulness. A splendid preventative of cholera. They are very easily grown and immensely productive, sometimes yielding as high as 1,000 bushels per acre. Cut the tubers up fine and plant the same as potatoes, only a little further apart. The hogs dig them for themselves. Peck, 45c; bushel, \$1.35; bbl. (enough for an entire acre), \$3.50.



## WONDERFUL SAND VETCH.

(Or Winter Vetch,)

Though it succeeds and produces good crops on poor, sandy soil, it is much more vigorous on good land and grows to a height of 4 to 5 feet. It is exceedingly nutritious, much more so than clover, is eaten with relish, and

may be fed with safety to all kinds of stock. Also valuable for a hay crop. Sow one-half bushel per acre either in spring or fall. Per lb., 12c; 10 lbs., \$1.00; 50 lbs., \$4.00; 100 lbs., \$7.50.



## Choice Selected Northern-Grown Seed Corn.

The Seed We Offer is Grown for this Purpose, Carefully Selected and Shelled.

### KOSS' EARLY GOLDEN SURPRISE.

Unapproachable as a yielder, it withstands the harshest weather and when shelled this corn produces a superior quality on account of extreme smallness of cob and depth of grain. The grains are of a rich golden color, very deep, and profitable on account of small per cent. of waste of cob. The cob is so small that 35 pounds of ears produced 31½ pounds of shelled corn. The Corn is a vigorous grower, with short, strong stocks and an abundance of deep green foliage, which makes it an excellent fodder corn. It matures uniformly in 90 days from planting, and all points considered it is the best field corn in cultivation. Golden Surprise is the greatest money earner yet introduced to the American farmer. There can be nothing of greater importance to him than to increase the yield and feeding value of corn. Early Golden Surprise will give that result. Quart, 15c; peck, 50c; bushel, \$1.50; 2½ bushels, \$3.50.

### IOWA GOLD MINE.

A handsome early Corn, ripening a few days after Pride of the North; ears are of good size, very even and uniform in shape, cob small, with very deep grains of a bright golden color, which dry out very quickly as soon as ripe. Ears have been shelled of this variety which produced 64 lbs. of shelled corn and only 6 lbs. of cobs to the bushel. Quart, 15c; peck, 40c; bushel, \$1.25; 2½ bushels, \$2.75.

### IOWA SILVER MINE.

A very popular White Dent Corn, maturing medium early. The stalks grow seven to eight feet high, in many cases yielding two and three good ears, which are set about four feet from the ground. Quart, 15c; peck, 40c; bushel, \$1.25; 2½ bushels, \$2.75.

### WHITE CAP YELLOW DENT.

This now famous corn possesses the earliness of Pride of the North, and will produce a greater yield on thin, poor land than any other corn. Grows about 6 to 7 feet in height, with abundant foliage and fine large ear. The tip ends of the grains are white, the inside yellow, making it of a beautiful color, both when on cob and when shelled. Quart, 15c; peck, 40c; bushel, \$1.25; 2½ bushels, \$2.75.

### ANGEL OF MIDNIGHT.

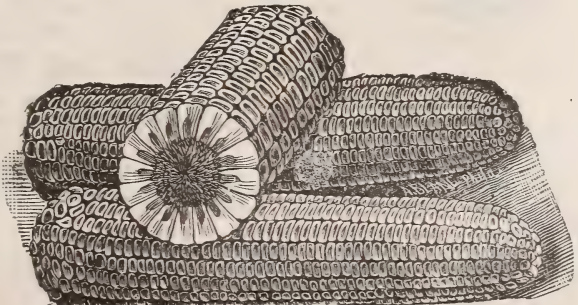
An extra early yellow flint, 8-rowed variety. The ear is perfect in shape; length 10 to 13 inches. Rows straight and even, and filled from tip to tip; stalks are of medium size. Quart, 15c; peck, 45c; bushel, \$1.50; 2½ bushels, \$3.25.

### WISCONSIN WHITE DENT.

The best white Dent for this northern latitude, 16 to 20 rows, small cob, large kernels. Quart, 15c; peck, 50c; bushel, \$1.50; 2½ bushels, \$3.25.

### PRIDE OF THE NORTH.

No variety of corn has been more extensively grown in the northwestern states than this. It is early, with a fairly large ear and small cob closely set with deep kernels; color bright yellow. It will shell 60 to 64 lbs. per bushel of 70 lbs. of ears; 14 to 16 rows often placed irregularly on the small red cob. Quart, 15c; peck, 45c; bushel, \$1.25; 2½ bushels, \$2.75.



Pride of the North.



## Koss' Golden Beauty Corn.

Has the Largest Grain and Smallest Cob of Any Corn in Cultivation.

This famous corn still retains its popularity as an exceedingly early and prolific variety, always maturing in 90 days; often shelling 62 pounds of grain from 70 pounds of ears. Kernels closely set, large, of deep orange color; cob very small; stalks about 7 feet in height. This is probably the best Dent Corn for general cultivation in the North, and is now largely used in the South and West, as it matures its crop before the hot winds affect it. We offer pedigree seed grown from the original stock with care. This corn is not fully appreciated until the large yield and small percentage of cob is carefully noted. There is no yellow Dent Corn yet discovered that can take the place of this most valuable variety. It is a safe corn for any section of country, never disappoints the grower by maturing too late, yields more corn acre for acre than any other, and has by far the most satisfactory record of any yellow Dent Corn ever introduced. Quart, 15c; peck, 50c; bushel, \$1.50; 2½ bushels, \$3.50.

## Red Cob Ensilage Corn.

This superior ensilage corn I can recommend as being the heaviest cropping variety in cultivation, producing from 50 to 75 tons per acre. It has been thoroughly tested in all dairy sections of the country with best results. It is a pure white Dent Corn of large size and handsome appearance, growing on a red cob. The fodder is sweet, tender, juicy and contains more nourishment than any other variety. It grows 13 to 14 feet in height, taking strong hold in the ground, standing well up and resisting storms of all kinds to a remarkable degree. Peck, 30c; bushel, \$1.00.

## Brazilian Flour Corn.

A grand stooling sort; each kernel produces several stalks, each stalk bears two or three beautiful white ears which make a flour equal to wheat. It produces an immense amount of fodder for feeding stock. Quart, 20c; peck, 65c; bushel, \$2.00.

Koss' Golden Beauty Corn.



Kaffir Corn.

## Kaffir Corn.

Stocky and perfectly erect, foliage broad. The seed heads grow from 10 to 12 inches in length and the product of grain will average 60 bushels to the acre. Lb., 6c; 10 lbs., 40c; 100 lbs., \$3.00.

## Jerusalem Corn.

Claimed by many to be an improvement on Kaffir Corn, as it is a surer crop in unfavorable seasons. Produces a large crop of foliage which is of very good quality. Seed white and nearly flat. Yields a good grain crop also. Three to four pounds will plant an acre in drills, 40 to 50 lbs. broadcast. Pound, 8c; peck, 50; bushel (50 lbs.), \$1.75.



JERUSALEM CORN.

## Australian Salt Bush.

This forage plant from Australia is a wonder for the alkali plains of the West. Yields 20 tons of green fodder per acre. Plant is perennial. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

## Blue Field Poppy.

Ounce, 5c; ¼ pound, 10c; 1 pound, 25c; 5 pounds, \$1.00.

## Teosinte.

Somewhat resembling corn in appearance, but the leaves are much longer and broader, and the stalks contain sweeter sap. Horses and cattle eat it as freely as young sugar corn. Large pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 90c; 2 lbs. (sufficient for 1 acre), \$1.75.



## SEED POTATOES.

In Every Sense that the Word "SEED" Should Imply.

**Extra Early Ohio**—Early Ohio is the most popular early potato in this country. We have more calls for it than for any other variety. Every potato grower knows what it is, and knows just about what it will do in his locality. It is the standard extra early the country over, and other varieties are measured by it. We have an extra choice strain of Early Ohio. We will venture to say that not one farmer in ten, the country over, who thinks he has Early Ohio has pure stock. Most of them do not know that they are mixed. But Early Ohio is an old variety and has become frightfully mixed throughout the United States. Farmers and market gardeners, better sell off your own Ohios and get some of our pure improved, grown from Red River Valley seed. Peck, 40c; bushel, \$1.35; barrel, \$3.25.

**Bliss Triumph**—The earliest potato in existence. A handsome round variety which is by far the earliest variety in the world, maturing a week before the Extra Early Ohio, and is wonderfully productive. The tubers are not large, but are of a medium size for early use, and a beautiful red color. For several years past it has been the most popular variety in the southern states and in the Bermudas, and hundreds of carloads are shipped to the northern market and bring fancy prices. It is a vigorous grower and we recommend it for the first early market or family use. Per peck, 50c; bushel, \$1.50; barrel, \$3.50.



**Thoroughbred**—This is an elegant new potato of the Early Rose type, and in every respect just as good, if not better, than this when first originated. The skin is of a beautiful pink color, shape oblong to long and very regular; the eyes, although large, are even with the surface. It is a rank and free grower of vines and tubers, with so much vitality and vigor that it is certain to make a good crop even in seasons of severe droughts. The tubers grow large to very large, and are of handsome appearance, and the table qualities are of the very best. It is a seedling of the Early Rose and claimed to be 10 days earlier than this. Besides being so early it is an enormous yielder, and in fact, all who have tried it consider it a perfect potato for early marketing; being of such extreme earliness, very large size and handsome form, they will always sell at first sight on the market. Peck, 35c; bushel, \$1.35; barrel, \$3.25.

**The Freeman Potato** has fully realized the glowing predictions which I made for it at the time of its introduction. It proved to be a rival of the famous Early Rose, and my customers have made money out of it. The Freeman is a strong grower, containing fresh, vigorous blood. It is early in reaching maturity and enormously productive, and is universally admitted to be the finest flavored potato on the market. People say that when once used on the table it is sure to remain there, on account of its superlative excellence. Peck, 35c; bushel, \$1.35; barrel, \$3.25.

**Carman No. 3**—This handsome main crop potato is of large size, yielding immense crops of uniform size and shape. It is of perfect form, almost every potato being of same size and shape, and averaging nearly one pound each in weight, in good seasons. It has but few eyes, and they are shallow; the skin and flesh are extremely white and its cooking qualities are very fine. It is a remarkably handsome potato, enormously prolific, and will please all potato growers. Keeps well. Per peck, 40c; bu., \$1.35; bbl., \$3.00.

**Sir Walter Raleigh**—The two greatest money makers of recent years have been Rural New Yorker No. 2 and Carman No. 3. Both originated with the late E. S. Carman of the Rural New Yorker. Since then Sir Walter Raleigh has been brought forward as "Mr. Carman's Best." The introducers say: "In most respects it closely resembles Rural New Yorker No. 2, but is more uniform and yields practically no small tubers, every one being marketable. It is unquestionably the best of its type." Farmers who plant this variety, are practically certain of getting big returns on their investment, as it invariably yields big crops and the potatoes will always sell. Peck, 50c; bushel, \$1.50; barrel, \$3.75.

### ORDER EARLY.

Do not put off ordering Seed Potatoes until you want them, but send in your order as soon as possible. This will give us plenty of time to get them ready for shipment.



## GRASS AND CLOVER SEEDS.

Prices subject to market fluctuations.



Meadow Fescue.

**Meadow Fescue, or English Blue Grass**—Succeeds well in almost all soils, from high, dry land to moist, standing the dry summer heat excellently. It is valuable as pasturage grass, being one of the earliest in the spring and the latest in the fall. It is hardy, never grows in tufts, and being tender and succulent, makes excellent hay. It is a perennial, 2 to 3 feet high, flowering in June and July. Pound, 10c; bushel, \$1.35; 100 lbs., \$8.75.

**Orchard Grass**—One of the most valuable of all pasture grasses, coming earlier in spring and remaining later in autumn than any other. It grows about 2½ feet high, producing an immense quantity of leaves. It grows in tufts, and is therefore not adapted for growing alone, but should be sown with Red Clover, Tall Meadow Oat Grass, or Rye Grass. Pound, 18c; bushel, \$2.10; 100 lbs., \$14.00.



Orchard Grass.

**Tall Meadow Oat Grass**—For either hay or permanent pasture. Does well on any soil, but of special value on clay land. Grows tall, and therefore desirable for meadow. Does not winter kill. Seldom sown alone, but should be included in all mixtures. Lb., 20c; bu., \$2.00; 100 lbs., \$16.00.

**Red Top**—Sown largely in marshy land and sloughs in the West. In the East it is one of their principal sorts, but is not so highly valued here. It makes a fine, close turf of fair quality when not allowed to go to seed. Solid or Fancy clean seed. Lb., 15c; 10 lbs., \$1.15; 100 lbs., \$10.00.

**Perennial Rye Grass (or English Rye Grass)**—A nutritious permanent grass for meadows and pasture, or for mixing with other grasses for lawns. Does well on sloping banks, as its roots are fibrous and mat-like. Does well on almost any land, but prefers rich or moist soil, such as will produce a good corn crop. Sow 20 lbs. per acre. Pound, 10c; bushel, \$1.20; 100 lbs., \$6.50.

**Italian Rye Grass**—An annual variety of above, which can be depended on to give a large crop the first year. Valuable for sowing with crimson clover as a catch crop on red clover fields where clover has winter killed. Pound, 19c; bushel, \$1.20; 100 lbs., \$6.50.

**Kentucky Blue Grass**—It is productive and unusually early in the spring, furnishing delicious food for all kinds of stock. It is not easily affected by drought or frost, is suited to a great variety of soils. Unexcelled for lawns. Our seed is all new crop, and the best grade. "Fancy Cleaned." Pound, 25c; bushel, \$3.00; 100 lbs., \$18.50.

**Bromus Inermis**—This useful grass, also called Hungarian or Smooth Brome Grass, grows to a height of 3 or even 5 feet. It is a native of Hungary. It has done well in America, especially on dry, arid soils, in which situations its drought-resisting qualities are seen to advantage. It is claimed for it that it will succeed in a wider range of temperature than any other grass, and that it will produce satisfactory crops on land too poor to support timothy and the other agricultural grasses. Weight of seed, 14 lbs. to the

bushel. Sow 20 to 35 lbs. per acre. Pound, 15c; bushel, \$1.50; 100 lbs., \$10.00.

**Timothy**—Market price, about 8c per lb.; peck, 70c; bu., \$2.45; 100 lbs., \$5.25.



Italian Rye Grass.



Perennial Rye Grass.



Tall Meadow Oak Grass.



Bromus Inermis.



## CLOVER SEED.

No other plant is of such importance to agriculture as clover, and this not only on account of its great value for pasture and for hay, but by far its greatest value comes in as a soil reclaimer as it restores fertility to the land that has been exhausted by continuous cropping. Clover is the foundation to all successful farming and is unquestionably the most useful plant that can be grown on the farm.

**Medium Red Clover**—Market price about 20c per lb.; peck, \$2.75; bushel, \$10.00; 100 lbs., \$16.50.

**Mammoth Red Clover**—Market price about 20c per lb.; peck, \$2.75; bushel, \$10.00; 100 lbs., \$16.50.

**Silesian Red Clover**—Extremely hardy. Lb., 20c; peck, \$2.90; bushel, \$10.65; 100 lbs., \$17.50.

**White Clover**—It is the most hardy of any variety of clover, and as it is of a creeping habit it is desirable for sowing on terraces or sloping grounds. Price for our choicest quality, per lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.50.

**Seradella**—For very dry soils. Lb., 15c; 10 lbs., \$1.15; 100 lbs., \$9.50.

**Crimson Clover (also called Giant Incarnate)**—This is an annual variety in common use in the East and South for feeding green. The yield in fodder is immense, and after cutting it at once commences to grow again and continues until severe cold, freezing weather. It grows about 1 foot high, roots nearly black, leaves long, blossoms long, pointed and of a very deep red or carmine color. Lb., 15c; peck, \$1.50; bu., \$5.50; 100 lbs., \$9.00.



Crimson Clover.

**Sand Luzerne**—For light sandy soil. Per lb., 25c; peck, \$2.75; bushel, \$10.00; 100 lbs., \$16.50.

**Alsike, or Swedish Clover**—This clover comes from the little province of Alaska in Sweden. It is a great favorite with bee raisers, and its flower has a sweet and agreeable odor. Lb., 20c; peck, \$2.75; bushel, \$10.00.

**Sainfoin Clover (also called Espercette Clover)**—An excellent but comparatively little known variety of special value for growing on light, dry, sandy or limestone soils. Per lb., 10c; 10 lbs., 90c; 100 lbs., \$8.00.

**Alfalfa, or Luzerne Clover**—Under proper management it will yield 10 to 12 tons to the acre. All classes of stock are exceedingly fond of it. The roots are so long and grow so deep, frost cannot heave or throw them out in winter. One sowing will stand for 20 years, and instead of impoverishing the soil, enriches it. Grows on the thinnest sandy soil and thrives in greatest drought. Sow broadcast about 25 lbs. to the acre. Comes up very spindling and slowly, and it is necessary to mow the weeds to give it light, but when once established, the weeds will be smothered. Lb., 20c; peck, \$2.75; bushel, \$10.00; 100 lbs., \$16.50.

**Turkestan Alfalfa**—This has recently been introduced into cultivation by our Agricultural Department. It was found growing on the high table lands of Asia, and is especially adapted to the sudden changes of temperature that prevail there—intense heat at midday and very often frost at night, even in midsummer. It resembles the ordinary Alfalfa, described on this page, excepting that the leaves are shorter and are sparsely clothed with short hairs. Its cultivation has been quite successful in the arid regions of the West, and under conditions where Alfalfa or Luzerne fails the Turkestan Alfalfa will prove to be of the greatest value. Lb., 25c; peck, \$3.00; bushel, \$11.00; 100 lbs., \$18.00.



Luzerne.



## SPECIAL GRASS AND CLOVER MIXTURES.



### PERMANENT MEADOW MIXTURES.

Will make the best quality hay as the mixture contains such grasses as produce a heavy growth and mature together. Sow from 15 to 20 lbs. per acre, or for a top seedling about half the amount.

**No. 1. For Medium Soils**—Contains Meadow Fescue, Perennial Rye Grass, Italian Rye, Orchard Grass, Tall Meadow Oat, Timothy, Red Clover, Alsike, Sweet Vernal, etc.

**No. 2. For High, Dry Land, Light or Gravelly Soils**—Contains Sheep's Fescue, Alfalfa, Hard Fescue, Perennial Rye Grass, Meadow Fescue, Timothy, Kentucky Blue Grass, Sweet Vernal, etc.

**No. 3. For High, Dry Land, Heavy or Clay Soils**—Contains much the same as above with the addition of Orchard Grass, Crested Dogtail and Bromus.

**No. 4. For Moist and Rich Soil, or Land Subject to Overflow**—Contains Water Meadow Grass, Meadow Foxtail, Perennial Rye Grass, Meadow Fescue, Red Top, Meadow Soft Grass, Alsike Clover, etc.

**No. 5. For Top Seeding Swamps, Marshes, Etc.**—(Sow 10 lbs. per acre.) Contains much the same as above, in different proportions.

#### PRICES:

Any of the above Permanent Meadow Mixtures, per lb., 15c; 10 lbs., \$1.35; 20 lbs., \$2.50; 50 lbs., \$5.25; 100 lbs., \$10.00.

### PERMANENT PASTURE MIXTURES.

Selected with a view to having a succession of grasses coming on constantly from earliest spring through the dry summer weather, and through the fall. It is permanent and keeps improving year after year. Sow from 15 to 20 pounds per acre, or for top seeding, half the amount.

**No. 6. For Medium Soils**—Contains Kentucky Blue Grass, Meadow Fescue, Perennial Rye Grass, Orchard Grass, Tall Meadow Oat Grass, Hard Fescue, Alsike Clover, White Clover, Timothy, Red Clover, etc.

**No. 7. For High, Dry, Gravelly Soils**—Contains Sheep's Fescue, Hard Fescue, Creeping Bent, Bromus Inermis, Crested Dogtail, Meadow Fescue, Timothy, Kentucky Blue Grass, White Clover, etc.

**No. 8. For High, Dry, Heavy or Clay Soils**—Contains much the same as above, mixed in different proportions, with the addition of Alfalfa and Orchard Grass.

**No. 9. For Moist and Very Rich Soils**—Contains Perennial Rye Grass, Water Meadow Grass, Water Fescue, Meadow Foxtail, Orchard Grass, Meadow Soft Grass, Tall Meadow Oat Grass, Alsike, etc.

**No. 10. For Orchards, Wood Pastures and Shady Places**—Contains Wood Meadow Grass, Orchard Grass, Kentucky Blue Grass, English Blue Grass, Meadow Foxtail, Sweet Vernal, Red Clover, Alsike, etc.

#### PRICES:

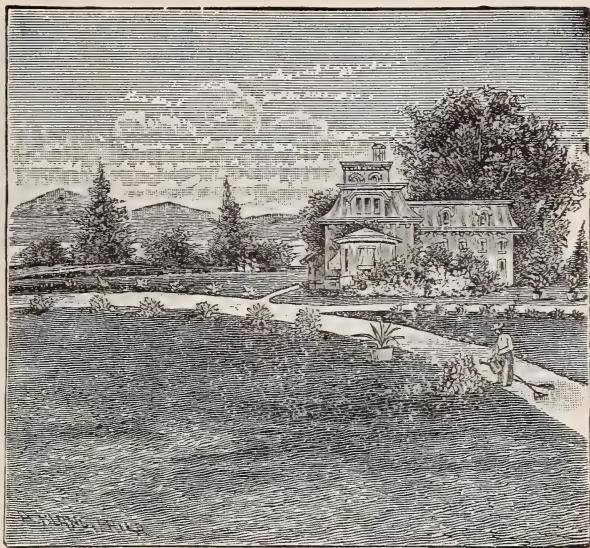
Any of the above Permanent Pasture Mixtures, per lb., 15c; 10 lbs., \$1.35; 20 lbs., \$2.50; 50 lbs., \$5.25; 100 lbs., \$10.00.



## KOSS' LAWN GRASS SEED.

"Thank God for grass! No other glory vies  
With the refreshing glory of the grass;  
Note 'en the blue of the o'erbending skies,  
Nor fading splendor when the daylight  
dies,  
Can this sweet smile of living green  
surpass."

A nice, velvety lawn adds more to the beauty of a place than any other adornment, and even the humblest home may be made attractive with such surroundings, while without a good lawn even the finest flowering plants and elegantly arranged beds seem insignificant. How important it is then to plan for the best lawn obtainable. Do not spend money in sodding a lawn, for it is expensive and seldom satisfactory. When sod is cut from the roadside



or some out of the way pasture, it is poor in quality and full of weeds, and when unevenly laid produces a rough surface which disfigures the lawn. It costs much less to sow the seed and the lawn is far better. Ask for circular, "How to Make a Lawn."

Three to four bushels of Lawn Grass Seed should be sown per acre, or one quart for every 300 square feet. It is necessary to sow the grass seed very thick so as to obtain a close stand, which will prevent the weeds from coming up. A great many lawns have to be sown over again when not enough seed has been used. After sowing the seed it should be harrowed or raked in lightly, which should be followed by a roller so as to bring the seed in direct contact with the soil and insure an immediate sprouting. If a roller is not at hand, firm the ground down by means of a wide board or plank.

**Evergreen Lawn Grass Seed**—Fresh, pure and clean. The necessary requisite for a beautiful and enduring lawn. This Grass Seed is a carefully prepared combination of the various grasses designed to produce a fine, dwarf, compact and permanent turf. Many lawns dry out and turn brown during the hot, dry summer months, and do not revive until the cooler weather of autumn. By a judicious use of some of the European Grasses with the Standard Lawn Grasses of America, I am enabled to offer a mixture to the public which, from the habits of the various grasses of which it is composed, to ripen successively, will grow and flourish during the different months of the season, so that a rich, deep green is constantly maintained. Seeds of the highest grade, carefully re-cleaned, and of the best quality in every respect, are used in this mixture. Price, pint, 10c; quart, 20c; peck, \$1.35; bushel (20 lbs.), \$5.00.

**Central Park**—A cheaper mixture than the preceding. Quart, 15c; peck, 75c; bushel (14 lbs.), \$2.75.

**Shady Place Lawn Mixture**—This mixture is a combination of fine dwarf growing, evergreen varieties of grass, which grow naturally in the woods or in shaded spots. They are mixed in proper proportions to make a fine lawn under the shade trees. Sow seed thickly, 1 quart to 150 square feet. Pt., 15c; qt., 25c; peck, \$1.50; bu. (20 lbs.), \$5.60.

**Golf Links Mixture**—This is a mixture of various sorts of fine grasses which, when liberally sown, will produce a fine green sward during the growing season. They grow vigorously when cut closely, form a fine mass of interlacing roots, and also differ in their seasons of maturity, so that a succession of fresh growths is secured from earliest spring to latest fall. This mixture includes Sweet Vernal Grass, which gives the perfume of "New Mown Hay." Pint, 15c; quart, 25c; peck, \$1.50; bushel (20 lbs.), \$5.60.

**Putting Green Mixture**—A mixture of extra fine grasses, that will make a close, firm, green and lasting turf; improves the more it is tramped. Pint, 15c; quart, 25c; peck, \$1.50; bushel (20 lbs.), \$5.60.

**Kentucky Blue Grass**—Many of our customers prefer a clear blue grass lawn to the mixtures. Our stock of this is the best grade of fancy cleaned new crop, tested seed. Lb., 25c; bushel (14 lbs.), \$3.00.

**White Clover**—The well-known common white clover is very hardy and its dwarf growth makes it desirable for lawn mixtures. Its close, dense turf and creeping habit make it desirable for terraces and sloping ground. Seed is very small and it requires but little in mixtures. Lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.50.

**Make your Place  
LOOK LIKE HOME  
this year by fixing  
up a good lawn.**



# KOSS' SELECT LIST OF FLOWER SEEDS



Success makes flower culture delightful and I desire all my customers to succeed. I am confident that my Flower Seeds are the

best, and will grow if properly taken care of and sown at the proper season. I went to considerable expense to have all my flower seed envelopes lithographed and cultural directions and descriptions affixed to same. I hope my customers will appreciate this. Every variety described in this list is done up in beautifully lithographed packets, showing the flowers in their natural colors. The same liberal discount which applies to Vegetable Seeds, also applies to Flower Seeds. This will give you \$5.00 worth for \$3.00; \$3.25 worth for

\$2.00, \$1.60 worth for \$1.00; 70c worth for 50c; 30c worth for 25c. This is truly an exceedingly low offer.

All my flower seeds are fresh, true to name and of excellent vitality. No charge for postage.

**ACROCLINIUM. Everlasting Flower—Stroh-Blume—**This is one of the most beautiful of the Everlasting Flowers. It is of strong growth, about 18 inches in height and bears a great number of pink and white daisy like flowers, with a yellow center. Mixed colors. Pkt., 5c

**ADONIS. Pheasant's Eye—Adonisröschen—**Very brilliant scarlet flowers. The foliage is pretty, delicate, and many parted. It will grow readily in a shaded place, under a tree, or by the fence, and requires no extra care in planting and cultivating. Hardy annual, one foot high. Pkt., 5c.

**AGROSTEMMA—**A bright little pink-like flower, of deep crimson with lighter center, produced on long slender stems. The plant is branching, rather dwarf, and pretty for edging. Also called "Mullein Pink." Hardy perennial. Pkt., 5c.

**ALYSSUM. Sweet—Steinfraut—**A desirable hardy annual, flowering from early spring until killed by frost. Flowers pure white. Pkt., 5c.

**ANTIRRHINUM. Snap Dragon—Süßwurm—**The Antirrhinum, perhaps better known by its old and popular name, Snapdragon, is an old favorite border plant, with dark and glossy leaves, and large and curiously shaped flowers, with finely marked throats. They have been much improved by careful selection, and are now really magnificent flowers. They will blossom the first season from seed sown in the spring, but the blossoms will be much stronger the second season. Succeeds best in dry, loamy soil. Tender perennial, two feet high. Mixed colors. Pkt., 5c.

**ASTERS—Aster—**This splendid class of plants is not only one of the most popular but also one of the most effective of our garden favorites, producing in profusion, flowers in which richness and variety of color are combined with the most perfect and beautiful form. For flower beds and mixed borders it stands unrivalled, hardy annual.

**Sample's Finest Mixed—**A new branching, long-stemmed Aster. Pkt., 10c.

**Paeony Flowered Mixed—**Beautiful large flowers, all colors. Pkt., 10c.

**White Rose—**A pure white Aster. Fine for bouquets. Pkt., 10c.

**German Quilled Mixed—**All shades. Pkt., 5c.

**Dwarf Bouquet Mixed—**A splendid mixture. Pkt., 5c.



Sweet Alyssum





Bartonia Aurea.



Camellia Flowered Balsams



Cockscomb.



Cosmos.

**BACHELOR'S BUTTON**—*Scabellum*—A perfectly hardy border plant, old fashioned, but very popular. Perennial, blooming the first season. Mixed Colors. Pkt., 5c.

**BALSAMS.** *Lady Slippers*—*Balsaminen*—Highly colored and free bloomers. By transplanting them once or twice the flowers are apt to be more double. Hardy annuals, growing two feet high.

**Camellia Flowered**—Extra fine mixed. Pkt., 10c.

**Double Mixed**—A good assortment. Pkt., 5c.

**Camellia Flowered White**—A pure white, double blossom, very choice. Pkt., 10c.

**BARTONIA, Aurea**—One of the most showy of our hardy annuals. The plants grow 18 to 24 inches high with thistle-like downy leaves, begin to flower early and continually. Flowers saucer-shaped, 2½ inches across, and of a bright metallic yellow. Pkt., 5c.

**CADENDULA Meteor.** *Pot Marigold*—Free flowering plants of easiest culture, succeeding everywhere, and blooming continually. Extremely showy, having double flowers of large size and intense glowing colors. Pkt. 5c

**CALLIOPSIS**—*Schöngesicht*—Showy, free blooming bedding plants, producing numerous rich colored flowers, sometimes called Beautiful Eye. Annual, mixed colors of every shade. Pkt., 5c.

**CANNA, Indian Shot**—Distinguished by the luxuriance and diversity of color of their foliage, but above all by the size and brilliancy of hue in their flowers.

**Crozy's Finest Mixture**—Pkt., 10c.

**CANDYTUFT**—*Schleifenblume*—Favorite plant of the easiest culture, useful for growing in beds or masses, bloom long and freely. Hardy annual.

**White**—Large, pure white trusses. Pkt., 5c.

**Mixed Colors**—Fine, sweet scented, very popular. Pkt., 5c.

**CANTERBURY BELLS**—(*Campanula*)—*Glockenblume*—Flowers large and bell-shaped. Succeeds best in light, rich soil. Pkt., 5c.

**CHRYSANTHEMUM**—Flower freely during summer and fall months. Pkt., 5c.

**CLARKIA**—The flowers are very pretty and of many colors, single and double; hardy annuals, 1½ ft. high. Pkt. 5c.

**COCKSCOMB.** *Celosia*.—*Hahnenkamm*—Annual plants, tropical origin and one of the most showy. Pkt., 10c.

**COSMOS**—Annuals growing to the height of 7 feet, with masses of elegant foliage and star-like flowers of all colors. Pkt., 5c.



Calliopsis.



Canterbury Bells.



CANDYTUFT.





Datura.

**CARNATION, Marguerite**—Kelfe—These superb new dwarf Carnations have created a great sensation, not only by reason of their fine double, fragrant flowers, but also because they can be treated as annuals. Like the *Dianthus* they flower freely the first season from seed. Pkt., 10c.

**DAHLIAS**—Georginen—The Dahlias can be grown easily from seed and flower beautifully the first season. Choice Mixed. Pkt., 5c.

**DAISY**—Tausendföhen—One of the most charming spring flowers, and indispensable for cool, shady places. With protection they will withstand the winter; double mixed, fine colors. Pkt., 10c.

**DATURA**—An attractive plant with large foliage and of vigorous growth, producing a succession of large white, purple-tinted, trumpet-shaped flowers. Pkt., 5c.

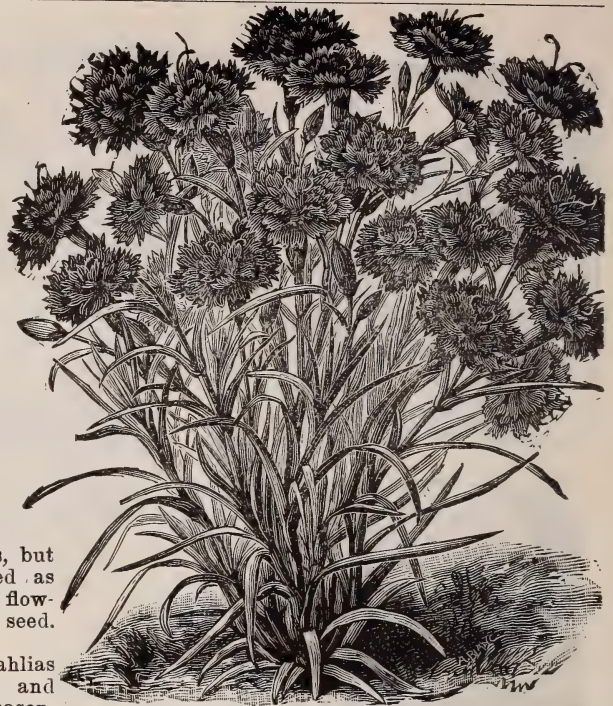


**ESCHSCHOLTZIA**. California Poppy—*Eschscholtzia*—Very attractive plants for beds, edgings or masses; profuse flowering; in bloom from June until frost; 10 to 12 inches high; leaves finely cut; very showy colors. Pkt., 5c.

**FORGET-ME-NOTS**—*Vergißmeinnicht*—Popular and beautiful little plants blooming the first year from seed; an old favorite. Pkt., 10c.



Double Daisy.



Marguerite Carnation.

**FOUR O'CLOCK**—The flowers are funnel-shaped, very fragrant; hardy annuals. Pkt., 5c.

**FOX GLOVE**—*Fingerring*—Fine mixed; long racemes of beautifully spotted flowers. Pkt., 5c.

**GAILLARDIA**—The flowers are some 2 or 3 in. across; semi-globular, dense, and therefore very showy. Pkt., 5c.

**GERANIUM**—Can easily be raised from seed, germinating in from 5 to 7 days. Fine mixed. Pkt., 10c.

**GILIA**—A familiar and popular garden plant, with finely cut foliage. Pkt., 5c.



Eschscholtzia.



Geranium.



**HELICHRYSUM—Everlasting Flower—Strohblume—Pkt., 5c.**

**HOLLYHOCK—Malve.—Very double and fine, mixed colors. Pkt., 10c.**

**ICE PLANT—Handsome and curious plants for hanging baskets, rock work, vases and edges. Pkt., 5c.**



Helichrysum.



Mignonette.



Mourning Bride.



Phlox.

**LARKSPUR, Perennial—Rittersporn—Very ornamental, combining the greatest variety of brilliant colors with duration and profusion of bloom. Pkt., 5c.**

**LOBELIA, Gracilis—Fine for pots, hanging baskets and vases. Pkt., 5c.**

**LYCHNIS Chalcedonica—Brennende Liebe. (Burning Star)—Blossoms of an intense, bright scarlet. Pkt., 5c.**

**MARIGOLD—Sammetblume—Well known free flowering plants, with double flowers or rich and beautiful colors, half hardy annuals, 1 foot high. Pkt., 5c.**

**MIGNONETTE, Grandiflora—Rejeda—A well known favorite that continues to bloom and send forth its sweetness all the season; hardy annual. Pkt., 5c.**

**MOURNING BRIDE. The Sweet Scabious is not so generally cultivated as it deserves. The perfectly double flowers are fine for cutting, they are gracefully borne upon long slender stems, well above the foliage. All colors. Pkt., 5c.**

**NIGELLA, Love in a Mist—Jungfrau im Grünen—Very interesting and free flowering plants, with curious looking flowers and seed pods; hardy annuals. Pkt., 5c.**

**NICOTIANA, Giant—Tender annual. Five feet high. Magnificent sub-tropical ornamental foliage and flowering plants for the lawn or borders. Pkt., 10c.**

**NOLANA—A handsome trailing plant, with small, bell shaped flowers of delicate shades of blue, marked with yellow and white; fine for hanging baskets, rock work and beds. Choice mixed colors. Pkt., 5c.**

**PETUNIA—Charming free flowering effective plants of easy culture, tender perennials, choice mixed. Pkt., 5c.**

**PHLOX, Grandiflora — Flammenblume—Choice mixed drummonds. Pkt., 5c.**

**Phlox, Star of Quedlinburg—A very striking novelty. Dwarfier than the Phlox Grandiflora. Flowers star-shaped; assorted colors. Pkt., 5c.**

**PINKS, Chinese Double Mixed—Garten-  
nelke—Well known favorites; their neatness**

**and beautiful colors can hardly be surpassed; they are easily raised from seed and delight in a mellow, sandy soil. Pkt., 5c.**

**POPPY—Mohn**

**A genus of showy free - flowering plants, producing a rich and effective display; choice mixed double. Pkt., 5c.**



Hollyhock.



Ice Plant.



Nicotiana.



Poppy.



Petunia.





Nasturtiums.

**NASTURTIUM.** *Tropaeolum*—Kapuzinerkresse—These will always be valuable summer flowers. They stand any amount of heat and drought. They will flower better, however, in a poor, rocky soil, as a rich one has a tendency to make them run "to leaf." Hardy annual.

**Majus**—Tall, all colors, mixed. Pkt., 5c.

**Minor**—Dwarf, all colors, mixed. Pkt., 5c.

**PANSY**—Stiefmütterchen—Too well known to need any description. Hardy perennials, flowering the first year.

**Black**—A group of these present a fine appearance. Pkt., 10c.

**White**—A delicate, pure white. Pkt., 5c.

**New Superb**—Very pretty. Pkt., 10c.

**Large Flowered Mixed**—Extra choice. Pkt., 15c.

**Mixed**—All shades. Pkt., 5c.

**German Mixture**—A splendid selection of the various shades. Pkt., 10c.

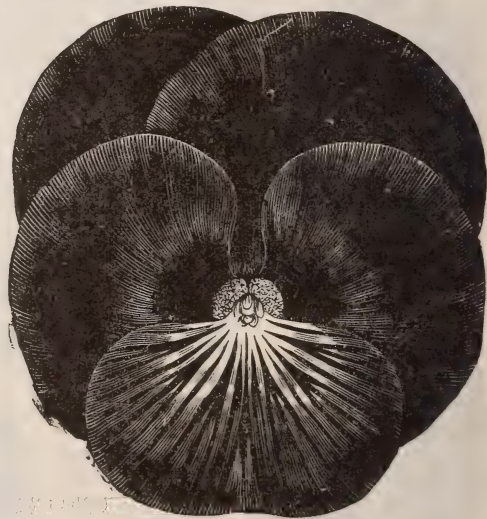
**PORTULACA.** *Moss Rose*—*Portulaca-Röschen*—A popular strong-growing annual, delights in sandy soil; neither heat nor drought is too great for it.

**Double** **Rose Flowered**—Mixed. Pkt., 15c.

**Single** **Mixed**—Brilliant colors. Pkt., 5c.



Portulaca.



Pansy

**PYRETHRUM**—(Feverfew)—Hardy, free flowering perennials, growing well in any good garden soil and producing a constant bloom. Pkt., 5c.

**SENSITIVE PLANT**—An interesting and curious plant, with globular heads of pink flowers, well known for the extreme irritability of its leaves and foot stalks, which close and droop at the slightest touch; tender annual, 2 feet high. Pkt., 5c.



**RICINUS.** Castor Oil Bean—Wunderbaum—A tall, majestic, ornamental foliage plant with leaves of a metallic hue; tender annual. Pkt., 5c.

**SALPIGLOSSIS**—Crompetenzunge—One of the most graceful in growth as well as one of the most beautiful in flowers of the many easily grown garden annuals. Pkt., 5c.

**SCHIZANTHUS**, or Christmas Orchid Flower—The plants that have flowered in the garden may be removed to the house in autumn and will continue to bloom during the winter months. 2 feet in height and bearing hundreds of flowers. Pkt., 5c.

**STOCKS.** Gillyflower—Scaboyen—Exceedingly valuable plants, producing an abundance of flowers of various shades and colors, and of the most delicate fragrance.

**Dwarf German Ten Weeks**—Good mixture. Pkt., 5c.

**Fine Mixed Ten Weeks**—Extra Choice. Pkt., 10c.



Verbena.



Ricinns.



Wall Flower.



Virginia Stock.



Schizanthus or Christmas Orchid Flower.

**SWEET WILLIAM** — Bartnelte — These plants when in full bloom present a beautiful sight, and for a fine display are unsurpassed; hardy perennial, blooming freely the first year from seed.

**Single Mixed**—Pkt., 5c.

**Double Mixed**—Pkt., 10c.

**VERBENA** — Eisenkraut — A very effective bedding plant. Flowers fine for bouquets; half hardy perennial, blooming the first season from seed.

**Grandiflora**—Saved from the choicest and most perfect flowers and best colors. Pkt., 10c.

**Fine Mixed**—A good mixture. Pkt., 5c.

**VIRGINIA STOCK** — Free flowering annuals of easy culture, with flowers of red, white, rose and the new marbled varieties; splendid for edgings. Pkt., 5c.

**WALL FLOWER**—The flower spikes are of great substance, very full, rounded at the top, of a handsome gold-red color, and unusually rich, sweet fragrance. Sow early in spring and it will bloom till frost. If sown in autumn it will bloom in spring. Pkt., 5c.



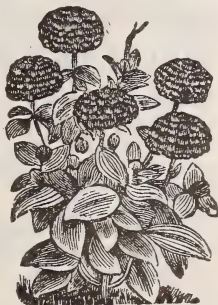
Salpiglossis.



Sweet William.

**ZINNIA**—Zinnia—A grand genius of autumn flowering plants, combining the greatest richness and diversity of color with unequalled profusion and duration of bloom. Half hardy annual.

**Double Mixed**—Grows 1½ feet high. Pkt., 5c.



Zinnia.





## SWEET PEAS.

There is no flower grown that is more popular, or that is more admired by all than the Sweet Pea, with its dainty colors and delicate perfume. The following list has been carefully selected and will be found to cover the entire range of colors and shades.

**Blanche Burpee**—Eckford's large pure white. Pkt., 5c.

**Katherine Tracy**—A soft but brilliant pink. Pkt., 5c.

**Little Dorrit**—Pink standard, white wings. Pkt., 5c.

**Mars**—Eckford's new bright scarlet, large and well formed. Pkt., 5c.

**Monarch**—Deep maroon and dark blue. Pkt., 5c.

**Mrs. Jos. Chamberlain**—Striped, bright rose on white. Pkt., 5c.

**Stanley**—Rich dark maroon. Pkt., 5c.

**Emily Henderson**—White, persistent bloomer. Pkt., 5c.

**Blanche Ferry**—Pink and white; popular. Pkt., 5c.

**Salopian**—Decidedly the finest scarlet Sweet Pea in cultivation. Pkt., 5c.

**Pink Cupid**—Dwarf, growing only six inches high. Bears generally three and sometimes four flowers to a stem. Blossoms, pink standards, wings a faint rose. Pkt., 5c.

**White Cupid**—The flowers are pure white, of good substance, and are very sweet. Pkt., 5c.

**Eckford's Choice Mixture**—Contains all the leading varieties and is a beautiful assortment. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

**Fine Mixed**—All shades. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 45c.

## WILD FLOWER GARDEN.

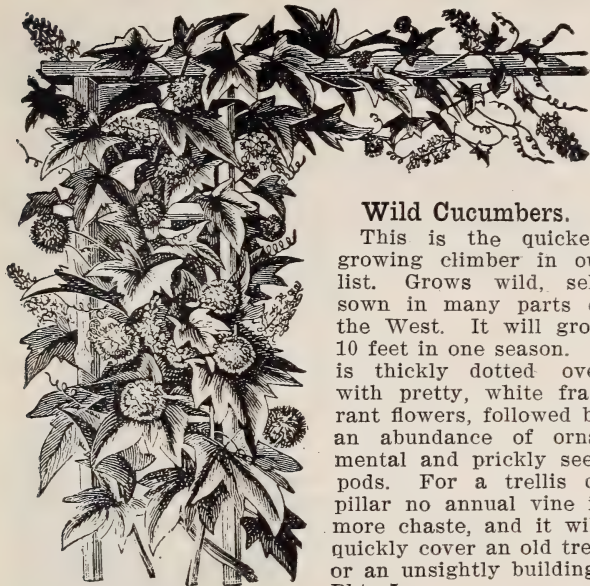
**Mixed Seeds**—The "Wild Garden" for its unusual and varied effects, cheapness, and the small amount of labor necessary for its construction has no rival. The "Wild Garden Seeds" are a mixture of the different hardy flowers, thus insuring on account of the different seasons of bloom, something new almost every day. Pkt., 5c; oz., 20c; ¼ lb., 60c.



Cupid Sweet Peas.



## A PAGE OF USEFUL AND BEAUTIFUL VINES.

**Wild Cucumbers.**

This is the quickest growing climber in our list. Grows wild, self-sown in many parts of the West. It will grow 10 feet in one season. It is thickly dotted over with pretty, white fragrant flowers, followed by an abundance of ornamental and prickly seed pods. For a trellis or pillar no annual vine is more chaste, and it will quickly cover an old tree or an unsightly building. Pkt., 5c.



Cobaea Scandens.

**Cobaea-Scandens**—A magnificent rapid growing climber with beautiful foliage and large bell-shaped purple flowers; trained on piazzas, arbors, etc., the offset is grand; half hardy perennials, often attaining a height of 20 feet the first season. Pkt., 10c.

**Balloon Vine**—Remarkable for its inflated membraneous capsules, and sometimes called Love-in-a-Puff. A rapid and graceful climber. Tender annual, 6 feet high. Pkt., 5c.

**Cypress Vine**—Cypresse—One of the most elegant vines, with delicate fern-like foliage and beautiful star-shaped flowers. Tender annual. Mixed, scarlet and white. Pkt., 5c.

**Moonflower**—Mondblume—Bears immense white flowers, five to six inches in diameter, with a five-pointed star in the center; the flowers open at dusk or earlier on cloudy days, at which time they are deliciously fragrant. Pkt., 10c.

**Morning Glory**—Winben—A popular climber of free growth and beautiful flowers, too well known to need any description; mixed colors. Pkt., 5c.

**New Japanese Morning Glory**—Gigantic flowers, magnificent foliage, exquisite new colors. Pkt., 10c.

**Passion Flower**—A beautiful climbing vine, producing peculiar shaped flowers. Hardy perennial. Pkt., 5c.

**Gourds**—Zierfürbisse—A great variety of curiously formed and marked fruit; the vines are of rapid growth, and with luxuriant foliage, adapted for covering screens, arbors, etc. Pkt., 5c.



Cypress Vine.



Ornamental Gourds.

---

**SPECIAL OFFER**—One packet of each of the above nine Climbers for only 40 cts.

---

**Mixed Climbers**—A mixture of many varieties of climbing plants which will produce the most gorgeous effect. When the space to be planted is limited this will save some expense in purchasing so many varieties. Pkt., 5c; oz., 20c; ¼ lb., 45c.



Passion Flower.



## SUMMER FLOWERING BULBS.



Gladioli.

assortment can be secured, it seems a matter of surprise that they are not found around every home. 3 for 10c; dozen, 39c.

**PRIZE GLOXINIA.**—Magnificent; will bloom in 6 weeks from the planting of the dry bulb. Bulbs, each 10c; 3 for 25c; 10 for 60c.

**GIANT BEGONIAS. Tuberous Rooted.**—Very beautiful. The flowers, which are of brilliant color and large size, make a magnificent display through the summer. Single—Scarlet, orange, pink, white, yellow and crimson, each 8c; doz. 80c. Double—Scarlet, orange, pink, white, yellow and crimson, each 10c; ½ doz. 50c.

**TUBEROSE. Double Dwarf Pearl.**—Much larger than the common Tuberose. Wonderfully fragrant. Notice, please, our very low prices. For large bulbs, each, 5c; doz., 35c.

**CALADIUM. Esculentum (Elephant's Ear).**—A grand tropical looking plant, growing 4 to 6 ft. high, producing leaves of immense size. A favorite for specimens on the lawn. Wants rich soil and plenty of moisture. Fine large bulbs. Each 20c; 3 for 50c.

I offer only a select list of choicest Summer Flowering Bulbs that can be grown easily by anyone under ordinary conditions. These will soon make a gorgeous display, flower the first summer and bloom and multiply season after season.

### DAHLIAS.

**Nothing more Showy than our Large Double Dahlias.**

Our mixture of Dahlias is made up of 15 to 20 of the choicest varieties. The colors range from deep maroon and crimson through all shades of pink and yellow to pure white. If people only realized what a beautiful show a few Dahlia bushes make in a garden and how easy it is to grow them, everybody would have some. Try it this year and be convinced. 15c each, 4 for 50c.

### GLADIOLI.

On account of its intrinsic merit alone the Gladiolus is entitled to the high rank it holds among flowers; but when it is considered, also, how easy is its culture, and for what a small sum a splendid



Pearl Tuberose.

## BOOKS.

The following Books are sent postpaid at prices quoted. Include one or more with your order.

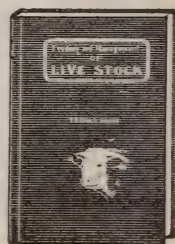


**The Gold Mine in the Front Yard; And How to Work It.**—By C. S. Harrison. Everyone interested in flowers and ornamental shrubbery will want to read it. Bound in silk ribbed cloth, gold stamped with photo medallion on cover. 12mo. 200 pages. Illustrated. Price, \$1.00.

**Vegetable Gardening.**—By Samuel B. Green. A manual on the growing of vegetables for home and market. Prof. Goff, University of Wisconsin, says: "An examination of your excellent book on Vegetable Gardening has decided me to use it in my short course class." 12mo. 260 pages. 122 illustrations. Price, 50c.

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**Makes Flowers Flourish.**

Flowers are like people. Their health depends upon their food. It must be *nourishing*, but not too rich to force growth and cause reaction. The one chemically correct flower food for house plants is

**Walker's Excelsior Brand.**

It has no odor whatever, and can be used dry or dissolved in water for sprinkling. Use it and your flowers will flourish and their health will last.

Small size (feeds 25 plants 6 months), 25c.; large size (enough for a year), 50c. Sent prepaid anywhere. With each package we send FREE the book, "How to Make the Window Garden a Success."

**SULPHO-TOBACCO SOAP.**—Invaluable to all lovers of plants. 3 oz. cake 10c, by mail 13c; 8 oz. cake 20c, by mail 28c.



**HAMMOND'S SLUG SHOT.**—Valuable for destroying Cabbage Worms and other insects infesting vegetables and flowers. 5 lb. pkge., 30c; 10 lbs., 50c; 100 lbs., \$4.50.

**WHALE OIL SOAP.**—Per lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00.

**PARIS GREEN.**—1 lb., 25c; 5 lbs., \$1.00.

**PURE BONE MEAL.**—An excellent fertilizer for lawns and gardens in general. 5 lbs., 20c; 10 lbs., 35c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.25.

#### STERLINGWORTH WEED KILLER.

Sterlingworth Weed Killer is the most satisfactory and powerful weed killer, compounded especially for use on walks, drives, tennis courts, golf links, etc., etc. It is a dry powder to be dissolved in water. When applied to vegetation it completely destroys all kinds of weeds, grass, (including milk weed and witch grass), briars, burdock, dandelions, daisies, thistles, poison ivy and other objectionable vegetable growths. One application kills roots, as well as foliage, preventing further growth. It may be applied with an ordinary watering can. One gallon covers three to four square yards. Full directions on each package.



#### Prices:

1 lb package makes 15 gallons, covers 45 to 60 sq. yds., 50 cents.  
3 lb. package makes 45 gallons, covers 130 to 180 sq. yds., \$1.25. 5 lb. package makes 100 gallons, covers 300 to 400 sq. yds., \$2.00.

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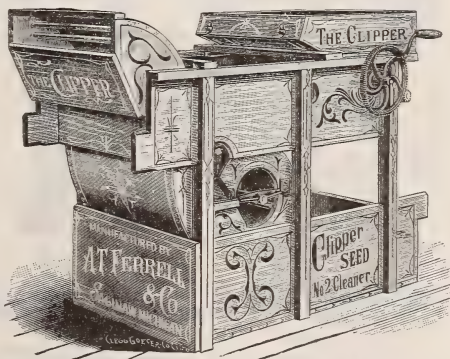
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If so, it must be the CLIPPER.

There can be only one Mill that is the best, and we unqualifiedly guarantee the Clipper to be that Mill.

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**LENOX SPRAYERS.**—Fine for spraying house plants. Sent complete with a cake of tobacco soap. Make a suds and spray. Your plants will surprise you. 50c ea. postpaid.



Ask for Our Special Catalog of "PLANET JR." FARM AND GARDEN TOOLS.  
We can save you money on these goods.



# GARDEN AND FARM REQUISITES

**Barrel Cart.**—For slops, water, potatoes, etc. An old kerosene barrel will fit into the frame. All the attachments are furnished. Price, without barrel, \$4.00.

**Hand Cart.**—Weight 80 lbs. Box 22x40 in. by 10 in. deep. Price, \$5.50.

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Barrel Cart.

**Farm Bells.**—No. 1, diameter 12 in., weight 40 lbs. Price, \$2.00. No. 2, diameter 17 in., weight 50 lbs. Price \$2.50. No. 3, diameter 19 in., weight 75 lbs. Price, \$3.75.

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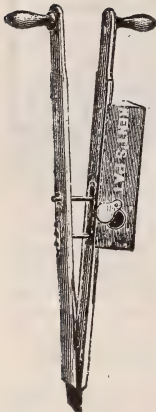
Hand Cart.



Farm Bell.



Hand Fork.



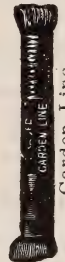
Acme Corn Planter.



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Garden Line.



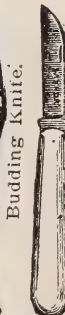
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Pruning Knife.



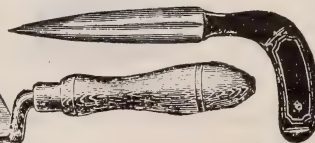
Budding Knife.



Lang & Weeder.



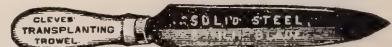
Garden Trowel.



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Plant Bed Cloth.



Cleve's Transplanting Trowel.



Rubber Putty Bulb.



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**Garden Line Reels.**—Small, 50c; large, 75c.

**Garden Line.**—Per 100 feet, braided, 65c.

**Garden Hose.**—Prices on application.

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**Knives.**—English Budding, ivory handle, each, \$1.00; two blades, each, \$1.00. Budding, cocoa handle, each, 75c. Asparagus, chisel shape, each, 50c.

**Putty Bulbs.**—Scollay's rubber, each, 85c; by mail, 95c.

**Putty.**—Tremlow's Old English, semi-liquid. Per gallon, \$1.25.

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**Seeders.**—Cahoon Broadcast. An excellent hand seeder, highly recommended. Price, \$3.00.

**Gem Hand Seeder.**—A handy little tool for small gardens or for sowing in hotbeds. Sows all kinds of seeds in drills. Price, \$1.00.

**Trowels.**—Ordinary garden, 6 in., each, 12c; by mail, 20c; 7 in., 15c; by mail, 23c; 8 in., 20c; by mail, 28c.

**English Steel Trowels.**—6 in., each, 25c; by mail, 35c.

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# Poultry-Supplies

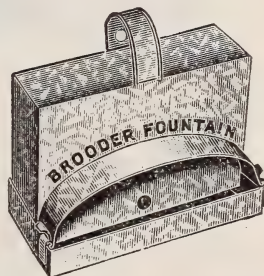
The following pages are devoted to Poultry Supplies. It is a well known fact that we carry the largest and most complete stock of Poultry Supplies in the Northwest and—

**TO THINK OF POULTRY SUPPLIES IS TO THINK OF KOSS.**

When in need of anything in this line, get it from Headquarters, the pioneer in the Poultry Supply business—Koss.

## KOSS' BROODER FOUNTAIN.

Made of heavy galvanized iron. Easily cleaned and filled. Water pan fastened with hinge and spring clip. Holds about one-half gallon. Length  $8\frac{1}{4}$  in., width  $4\frac{1}{4}$  in., extreme height 8 in. Price 60c each.



## PETTEY'S POULTRY PUNCH.



Price, 25 cts. postpaid.

Keep an accurate record of all breeds, strains, hatches, etc. Many a breeder has been unable to reproduce birds equal to ones he has already raised because he had no way of knowing what mating produced them. Marking your chicks with a Pettey Poultry Punch and keeping a record enables you to know and the man that knows wins.

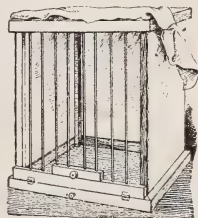
## KOSS' "GOOD HEALTH" FOR POULTRY.

A reliable antidote for many diseases of poultry. Disease cure and preventative. Used at the strength of one teaspoonful to each gallon of drinking water, the remedy will cure Roup, Cholera, Indigestion, Bowel Complaints, etc. All vessels should be kept perfectly clean and occasionally scoured.

Price per bottle, \$0.50.

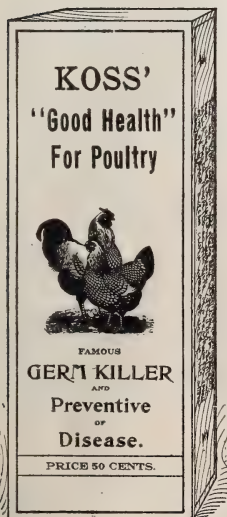
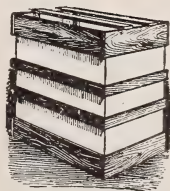
## KOSS' EXHIBITION COOPS.

Front is  $\frac{1}{4}$  in. round iron bars; top, ends and back are made of heavy canvas, and there is a strong canvas curtain that fastens down the front for shipping. Door full height, nicely painted. Price for pair or trio size, \$1.50; pen size, \$2.00.



## KOSS' SHIPPING COOPS.

These coops are not only slatted in order to secure the single rate expressage, but are entirely lined with strawboard, which protects from injury and keeps fowls warm and prevents chilling from drafts. Prices: For single bird, 12x18 in., 18 in. high, 30c each, \$3.00 per doz.; for trio, 18x24 in., 18 in. high, 40c each, \$4.00 per doz.; for pen, 24x30 in., 18 in. high, 50c each, \$5.00 per doz.





## WE SELL THE GENUINE CYPHERS INCUBATORS.

Reasons Why You Should Buy a Genuine Patent-Diaphragm, Non-Moisture, Self-Ventilating and Self-Regulating Incubator.

Latest Pattern.



**Artificial Incubation.**—Years of experience have demonstrated the many advantages of artificial incubating and brooding over the old method—the hen. The experimental stage has been passed, and the poultryman of to-day has but to decide which make of machine to buy—the one that will hatch the largest number of strong, vigorous, healthy chicks from a given number of fertile eggs, and with the least amount of expense and labor; also the brooder best equipped for taking care of the new life as soon as it is ready to leave the incubator.

The best possible test of an incubator is the work it actually does in the hands of the average operator. Tens of thou-

sands of Cyphers Incubators have been sold since they were placed on the market and their merit is attested in the following:

**Warrant of Superiority.**—Every genuine patented Standard Cyphers Incubator, latest pattern, is positively guaranteed as follows:

**First.**—To require no supplied moisture under normal conditions, thus solving and disposing of the troublesome “moisture question.”

**Second.**—To be self-ventilating, the air in the egg chamber remaining pure at all times by its own gentle but positive action.

**Third.**—To be self-regulating, being equipped with the most sensitive and durable regulator thus far invented.

**Fourth.**—To be so constructed that the temperature in the egg chamber is more equable than in any other incubator.

**Fifth.**—To be precisely as represented in construction, materials and workmanship, and, if given reasonable care, to last ten years without repairs.

**Sixth.**—To be easy to set up and positively automatic in operation (except as to trimming the wick, filling the lamp and turning the eggs), and to operate with less labor and expense than any other make of incubator.

**Seventh.**—To be in all essentials the simplest and easiest to operate and control, requiring less attention than any other make or style of incubator in the world.

**Eighth.**—To produce larger, stronger and healthier chicks and ducklings than any other style or make of incubator.

**Ninth.**—That when it is run in competition with any incubator of a different make, it shall in three or more hatches, bring out a larger average percentage of the fertile eggs in good healthy chicks and ducklings than does its competitor.

**Tenth.**—That each and every Standard Cyphers Incubator we send out will do satisfactory work in the hands of the purchaser, provided he will give it a fair trial, or it can be returned to us within ninety days, in good repair, less reasonable wear, and the purchase price will be refunded.

All sizes of the latest pattern Standard Cyphers Incubators are equipped with a “drop-bottom” for supplying ventilation when the incubator is operated during the warm months. This new valuable feature enables the operator to meet all conditions of weather.

The No. 2 and No. 3 latest pattern Standard Cyphers Incubators are furnished with nursery drawers, the drawers occupying the nursery space underneath the egg trays, and are reached through solid wooden doors located below the glass panel door that opens into the upper portion of the hatching chambers where the egg trays are situated.

Cyphers Company Incubators are the only machines manufactured that lawfully can be equipped with patented removable diaphragm, by use of which the “diffusive” system of ventilation is employed, overcoming the necessity of supplying additional moisture by use of shallow pans, wet sponges or moist cloths. This achievement has rendered Cyphers Incubators so simple and easy to operate and so certain in results that they have met with universal appreciation by experienced operators, while beginners succeed with them from the first trial because the machine itself solves the “moisture” problem for them; in other words, we place in their hands a practically automatic hatcher, leaving nothing to chance or experience.

By special arrangement with the manufacturers, we are in a position to sell Cyphers Incubators F. O. B. Milwaukee, Wis., at factory prices, as follows:

No. 0—70-egg size.....\$14.00	No. 2—244-egg size.....\$30.00
No. 1—144-egg size.....21.00	No. 3—390-egg size.....36.00



## CYPHERS UNEQUALLED APARTMENT BROODERS

Furnish a Safe Home for the Large, Strong and Vigorous Chicks Hatched in Cyphers Incubators, Insuring Rapid Growth, Constant Health, Fine Form and Lustrous Plumage. These Brooders are CERTAINTY. SAFETY AND SECURITY Combined.

Don't risk losses of well-hatched chicks in an inferior, wrongly-constructed brooder, when you can obtain a certainty of safety in the Cyphers Brooders. Having hatched your chicks, DON'T COURT FAILURE by putting them in an unsatisfactory brooder.

Cyphers Brooders are fit companions for the genuine Cyphers Incubators, and, like them, are correct in principle, and are well and durably made of the best materials. They have been improved as experience suggested, until to-day they are the best brooding device on the market. No Other Company puts into its brooders the same thickness and quality of lumber, and the same weight and quality of hardware. They furnish a safe home for the chicks both day and night. The proper test of a brooder is the actual work it does in the hands of the average operator. The superior merit of Cyphers Brooders has been fully demonstrated by the tens of thousands in successful use. Their simplicity, certainty in operation, economy of fuel, and convenience in use have won for them the first place in practically every civilized country on the globe, and under the most trying conditions.

## CYPHERS STYLE A, THREE APARTMENT, OUTDOOR BROODER AND COLONY HOUSE.



1908 Pattern.

The Cyphers Style A Brooder furnishes an outdoor home for little chicks that is as near weather-proof and neglect-proof as can be bought and sold at a popular price. We have manufactured these brooders during the past nine years and the best proof of their merit is that tens of thousands have been sold and are giving the best of satisfaction.

Briefly, the special points of merit in the Style A Brooder may be summed up as follows:

**First.**—It is rain-proof and storm-proof, the roof of both the hover chamber, and feeding or exercising apartment being covered first with Cyphers red rope roofing paper and then with a specially prepared heavy weight, water-proof duck.

**Second.**—It is fire-proof, being equipped with the Cyphers Insulated Brooder Stove, and the entire floor of the hover chamber being protected underneath by a solid sheet of galvanized iron with an air space between it and the wooden floor.

**Third.**—The fumes of the brooder stove cannot pass into the chick chambers (into either apartment), but are carried out at the sides of the brooder by an infallible device.

**Fourth.**—The surplus heat from the insulated brooder stove preserves all the lower woodwork of the brooder, by warming and drying the soil underneath, thus making the brooder not only safer and more comfortable, but more lasting.

**Fifth.**—The brooder stove is easy of access, being above ground, and easily and quickly reached. The flame may be observed without the necessity of stooping over to look through the small mica window in the stove door.

**Sixth.**—The brooder need not be placed in a pit, nor need the ground be excavated for the brooder stove; hence the saving of labor and in the trouble of caring for the brooder.

**Seventh.**—When the temperature underneath the chick hover is at 95 degrees, we have a surrounding atmosphere of 80 to 85 degrees, while in the front apartment the temperature will average several degrees lower. The chicks, therefore, may suit themselves, going to and from the heat at will, and will be found to be comfortable at all times.

**Eighth.**—The cylindrical chick guard prevents the chicks from crowding and also prevents their coming in contact with the heat drum or dome, to their injury.

**Ninth.**—In this brooder there are no stairs to climb, hence no danger of the little chicks getting lost and becoming chilled while learning their way out and in.

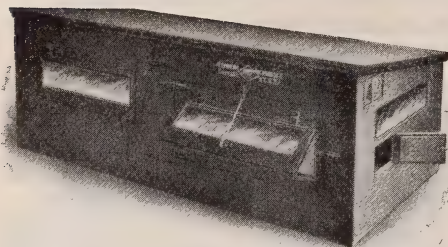
**Tenth.**—The brooder may be readily converted into a colony house or colony roosting coop without the use of tools or the driving of a nail or screw.

Price .....\$15.00



## CYPHERS SELF-REGULATING, THREE APARTMENT, OUTDOOR BROODER AND COLONY HOUSE.

1908 Pattern.



The Cyphers Self-Regulating, Combination Outdoor Brooder and Colony House, 1908 Pattern, possesses every valuable feature that has made the Style A Outdoor Brooder the safest and most popular device of the kind on the market, together with a number of additions that will recommend it to many purchasers. It differs only in size and shape, and is equipped with a Regulating Device that will be of material assistance in maintaining a more uniform temperature underneath the

chick hover, especially when exposed to all kinds of weather and in extra cold climate. The heating system, in every particular, is identically the same as is used in the Style A Brooder. In addition to the valuable features possessed by the Style A Brooder, this brooder is also provided with double-wall insulation for the hover chamber, for use during winter months. When spring arrives, and the weather moderates, this double wall can be removed in five seconds of time, without the use of tools whatsoever.

The entire floor space of this brooder, together with the lamp and other working parts, may be removed and roosts placed on floor cleats inside brooder, thus making a well lighted, well ventilated colony roosting coop.

Price .....\$18.00

### CYPHERS CHICK SHELTER.

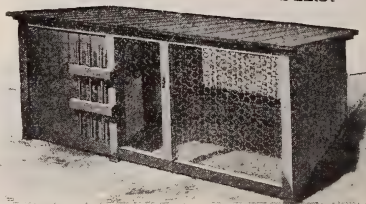
The Cyphers Chick Shelter meets the needs of any of our customers. The sides and ends are made of stout, wooden frames, covered with small mesh-wire netting. One end is made to fit front of brooder. Painted in green, with red trimmings.

Price of small size, 3x6 ft. ....\$5.00      Price of large size, 3x12 ft. ....\$7.50

### CYPHERS NEW MODEL COOP FOR HEN WITH CHICKS.

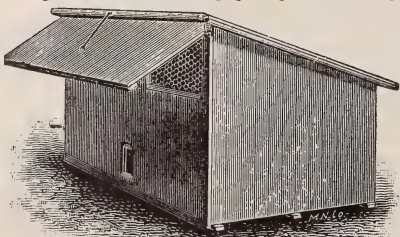
This new and improved model coop is intended for a hen with chicks, but may be used also as a home for the chicks long after they are weaned, or for chicks removed from the brooder. The house part (1 ft. 9 in. x 2 ft.) has removable floor. The exercise room (2 ft. 6 in. x 2 ft.) is closed at the end and is screened with fine mesh galvanized iron wire, back and front. Dimensions: Width, 4 ft. 3 in.; depth, 2 ft.; height in front, 1 ft. 9 in.; height in rear, 1 ft. 3 in. Painted in green, with red trimmings.

Price, complete .....\$3.75



Cyphers New Model Coop.  
Price complete, \$3.75

### CYPHERS COLONY HOUSE FOR GROWING CHICKENS.



Cyphers Colony House or Roost Coop.  
Price Complete, \$9.00

This colony house or roost coop will house comfortably fifty chicks eight to twelve weeks old. The hinged hood keeps out rain and snow and can be used for an awning. The floor is removable. Our price is considerably lower than the cost of building them singly or in numbers.

Dimensions: Floor space, 3x6 ft.; height in front, 36 in.; height at rear, 24 in. Painted in green, with red trimmings.

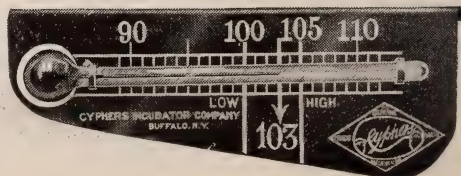
Price, complete .....\$9.00

### HIGH GRADE TESTED THERMOMETERS.

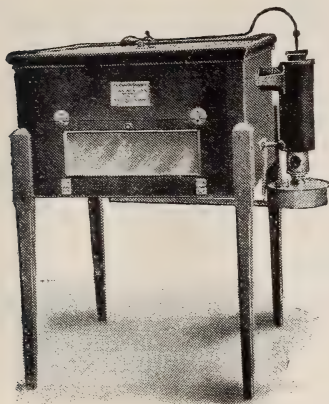
The best incubator or brooder manufactured is useless unless the thermometers used therein is accurate. The thermometers here listed are manufactured especially for us, and are thoroughly tested before they are shipped.

Cyphers Incubator Thermometers,  
each, postpaid .....\$0.65

Cyphers Brooder Thermometers,  
each, postpaid ..... .50







**Farm Economy Incubator.**

The regulating device of these machines is simple and very effective.

The main difference between the Farm Economy and the Boys' Choice is that of size; and the fact that the Boys' Choice has only a single wall, while the Farm Economy has double walls. Being smaller, the Boys' Choice has no nursery, yet is equipped with lower diaphragm attached to bottom of egg tray. Both are self-regulating, self-ventilating and non-moisture incubators.

Farm Economy, 110-eggs.....\$12.00      Boys' Choice, 50-eggs.....\$7.50

## CYPHERS STORM KING OUTDOOR BROODER AND COLONY ROOSTING COOP.

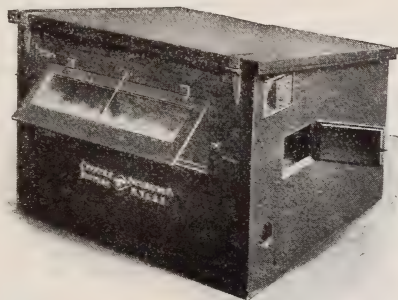
Recognizing the widespread demand for a thoroughly well-made, practical brooder that can be sold at a lower price than our Standard Style A or Self-Regulating Brooders, we have devised and perfected the Storm King Brooder. This brooder is lower in price simply because there is less of it—i. e., it has less floor space—not because it is cheaper in quality of materials, inferior in workmanship or wrong in principle of construction.

The Storm King Outdoor Brooder, 1908 pattern, consists of the brooding apartment of the Style A and Colony Brooders, without the exercising apartment of either, and without the regulating device and double insulation of the Colony Outdoor Brooder. In all other respects—including quality of materials in workmanship, it is identical with the brooding sections of the two larger and higher priced brooders, except that it has a double frame door in front, furnishing light and warm weather ventilation to the interior, instead of the smaller, single frame door used in this section of the other two styles of Cyphers Outdoor Brooders.

The entire floor space of this brooder, together with the lamp and other working parts, may be removed and roosts placed on floor cleats inside brooder, thus making a well lighted, well ventilated colony roosting coop.

Every outdoor brooder, in order to yield best results, should have an exercising apartment, or sun parlor, especially so if it is to be used during cold weather when it will be found advisable to keep the chicks confined several hours or days at a time. Any convenient shape or size will answer, provided it is dry and well lighted. Simply locate the improvised or home-made exercising apartment alongside the Cyphers Storm King Brooder, connecting it with the chick exit door, and the result will be a three-apartment brooder that can be operated on the same principle as the Cyphers Style A and Cyphers Self-Regulating Colony Outdoor Brooders.

Price, complete, (with thermometer and stove).....\$10.00



**Storm King Outdoor Brooder.**



## CYPHERS CHICK FOOD.

A Complete Food for Young Chicks: Is a mixture of eleven (11) different grains and seeds, proportioned so as to meet all the needs of growing chicks and to fully nourish them. By the term "fully nourished" we mean a great deal. Chick foods, as a rule contain too much fat-forming and not enough bone forming elements; and in consequence the chick develops indigestion and diarrhoea, which ultimately means no digestion at all, and quickly starves to death. If you feed Cyphers Chick Food, you are relieved of all concern, as the food is a complete and properly-balanced food, ready for use. Price: 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 85c, 50 lbs. \$1.50, 100 lbs. \$2.75.



### NOTICE.

The prices quoted on this page are those current at time of going to press—January 15th, 1908. They are subject to change with the fluctuations of the market without notice.

THEO. KOSS.

## CYPHERS DEVELOPING FOOD.

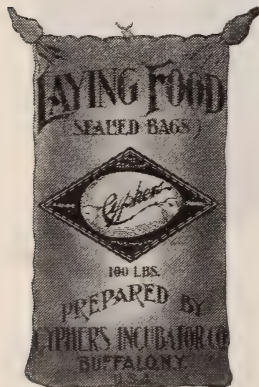
A special food intended for properly maturing young chicks after they are ready to be weaned from Chick Food. Contains a variety of grains in sizes and quantities exactly suited to the purpose. Price: 10 lbs. 30c, 25 lbs. 70c, 50 lbs. \$1.25, 100 lbs. \$2.25.

## CYPHERS FORCING FOOD.

Where very rapid growth is required, as in growing broilers or roasters, a highly concentrated food can be fed, and for this work we offer Cyphers Forcing Food. Price: 10 lbs. 30c, 25 lbs. 70c, 50 lbs. \$1.25, 100 lbs. \$2.25.

## CYPHERS SCRATCHING FOOD.

Composed of material that will be considered with special favor by the hens, something in fact, that their system craves. A little of this food scattered in the litter will quickly start them scratching, which means healthy fowls, full of vigor and vitality, and a full egg basket of hatchable eggs. Price: 10 lbs. 30c, 25 lbs. 70c, 50 lbs. \$1.25, 100 lbs. \$2.25.



## CYPHERS LAYING FOOD.

A blending of several different food materials in such proportions as to best furnish the elements necessary to fully nourish the body and promote egg production. Price: 10 lbs. 30c, 25 lbs. 70c, 50 lbs. \$1.25, 100 lbs. \$2.25.

## CYPHERS PIGEON FOOD.

The best and most satisfactory mixture of the best grains obtainable for this purpose. It is almost impossible for any fancier to purchase on the open market materials of this kind and quality and assemble them in proper proportions at as low a price as we offer Cyphers Pigeon Food. Price. 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 85c, 50 lbs. \$1.50, 100 lbs. \$2.50.

## CYPHERS SHORT CUT ALFALFA HAY.

This is Alfalfa Hay cut into short lengths and free from waste in the form of long stalks, weeds, etc. Fed either in mash or scalded and fed in a trough by itself.

Price: 5 lbs. 20c, 10 lbs. 30c, 25 lbs. 65c, 50 lbs. \$1.15, 100 lb. bag \$2.00.

## CYPHERS SHREDDED ALFALFA.

This article is finer cut than Short Cut Alfalfa and not so fine as Mealed Alfalfa. For use in the daily mash.

Price: 5 lbs. 20c, 10 lbs. 30c, 25 lbs. 65c, 50 lb. bag \$1.15, 100 lb. bag \$2.00.

## CYPHERS MEALED ALFALFA.

Mealed Alfalfa is Shredded Alfalfa reduced to a meal. Best form for use in mash food for chicks.

Price: 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 70c, 50 lb. bag \$1.25, 100 lb. bag \$2.25.





### HIGH PROTEIN BEEF SCRAP.

We have no hesitancy in recommending High Protein Beef Scrap as the best of their kind on the market. These goods are ground at the Chicago Stock Yards especially for our trade. We guarantee their purity. No pork or fat is used to add weight. The ordinary commercial scrap contains but 35 to 45 per cent. protein and from 20 to 30 per cent. fat, while our scrap, as analyzed by the State Board of Agriculture, shows 50 to 65 per cent. protein and only 15 to 20 per cent. fat. Fat in excess reduces the feeding values of poultry food, protein being the essential element. We, according, claim that 100 pounds of High Protein Beef Scrap has the feeding value of 200 pounds of any other scrap on the market. This scrap is now being used by the largest duck and poultry raisers in the country. A trial will convince you of the superiority of High Protein Beef Scrap. Do not compare the price you pay for High Protein Scrap with the price asked for other so-called scraps which, as a rule, are no less than refuse from soap factories or fertilizing works and have little or no value as a food. We mail you a sample package for the asking.

Price: 5 lbs. 25c, 10 lbs. 45c, 25 lbs. 95c, 50 lbs. \$1.75, 100 lbs. \$3.25. Special prices on larger quantities.

### MEAT MEAL.

This is made from meat, bone, blood and the liquor from cooking. Rich in albumen and protein. It is a nitrogenous food and a great egg producer. 100 lbs. \$2.50, 50 lbs. \$1.35, 25 lbs. 75c, 10 lbs. 35c, 5 lbs. 20c.

### GRANULATED BONE.

The impression prevails in many quarters that bone must be fresh or green to be of value as a food. This is not the case. The fresh bone contains about 40 per cent. water and 12 per cent. grease; 52 per cent. of matter which your fowls do not need or care for and which also taxes the digestive organs unnecessarily. The granulated bone we offer is made from fresh, green bones, from which the moisture and grease have been taken, leaving nothing but the phosphate, lime and protein. These are the only food values of bone, green or dry, so when you buy dry bone you do not pay freight on moisture or grease. Granulated Bone will keep in any climate or kind of weather, if kept in a dry place. Bone is especially valuable as an egg-shell producer. Sample package mailed on application. Price: 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 75c, 50 lbs. \$1.35, 100 lbs. \$2.50. Special prices on larger quantities.

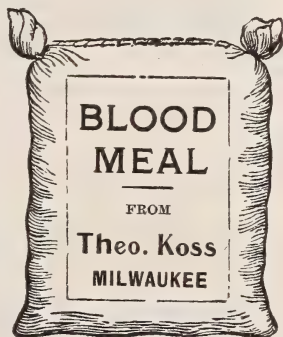
### FINE GROUND RAW BONE MEAL.

Raw Bone Meal is also made from fresh bones and is of the same stock as the Granulated Bone, but is reduced through a finer sieve. It is ground fine and is especially useful to mix with mash food. Cyphers Laying Food is a complete ration and it will not be necessary to use Ground Bone Meal if this food is fed, but with any of the other poultry foods offered we recommend the use of Raw Bone Meal. A sample package mailed on application. Price: 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 75c, 50 lbs. \$1.35, 100 lbs. \$2.50. Special Prices on larger quantities.

### BLOOD MEAL.

Unexcelled as an Egg Producer.

Pure Blood Meal fed your poultry will make your hens lay, your chicks grow fast and keep your fowls healthy. The Blood Meal offered by us is guarantee to be pure and free from adulteration, also free from objectionable odor which generally accompanies other poultry foods containing animal matter. Our Pure Blood Meal contains no ground bone or other cheap adulteration of any kind. It has less than 5 per cent. of moisture, and is the most complete poultry egg food in use. Price: 5 lbs. 30c, 10 lbs. 50c, 50 lbs. \$2.00, 100 lbs. \$3.75.



### CHARCOAL.

No pultryman can afford to be without charcoal. A little goes a long way, and it is worth its weight in gold to raisers of young chickens. It aids digestion and promotes the health of brooder chicks to a wonderful extent. The use of charcoal is generally corrective of numerous poultry ills.

As charcoal absorbs 90 per cent. of its own weight of ammonia (a deadly poison to young chickens) it is necessary that charcoal for poultry should be specially prepared—ordinary commercial charcoal should not be used. Our charcoal is guaranteed pure, and free from dangerous poisons. Sold in two sizes, granulated and pulverized. Prices: 1 lb. 5c, 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 75c, 100 lbs. \$2.75.



### CRUSHED OYSTER SHELLS.

We purchase these goods in car lots, hence can offer them at the lowest rock-bottom prices. Every pound of Oyster Shells offered by us is dried by a patent hot-air process and not by direct fire which burns out some of the most desirable qualities.

Our shells are crushed and ground to the size which expert poultrymen agree to be the best. If you have purchased other brands of Oyster Shells you have noticed that there are 10 to 25 lbs. of waste, consisting of dirt and dust, mixed in with every 100 lbs. of shell. This means a loss to you. Every pound of shell we sell is all shell and no waste.

It is needless for us to enlarge upon the value of Crushed Oyster Shells for poultry. Every poultryman realizes their importance as an egg-shell maker and general promotor of good health.

Price: 10 lbs. 10c, 25 lbs. 20c, 50 lbs. 35c, 100 lbs. 60c, 500 lbs. \$2.75. Special prices on larger quantities.

### PREPARED OYSTER SHELLS No. 2.

This is ground finer than the crushed shells for hens, and is excellent for young chicks and pigeons. Price: 8 lbs. 10c, 25 lbs. 25c, 50 lbs. 45c, 100 lbs. 75c.

### MICO-SPAR CUBICAL GRIT.

Mico-Spar Cubical Grit is a hard mineral product containing sodium, aluminum, magnesium, lime and iron, natural chemical properties which every poultry raiser knows are necessary to produce paying hens.

Paying hens lay their share of eggs regularly and willingly, never needing to be "forced" because they are well and strong. These are the slow but sure kind, the kind that helps raise the mortgage.

Mico-Spar Cubical Grit produces this kind of paying hens because it makes and keeps hens healthy. It creates perfect digestion because it keeps things in the crop on the move, owing to the fact that the corners of the cube always remain sharp. Honest, practical tests have shown that Mico-Spar Cubical Grit is the hen's choice, and that the minutest cube left in the crop retains its sharp corners.

Three sizes: No. 1 for hens, No. 2 for pigeons, No. 3 for chicks. Price: 8 lbs. 10c, 25 lbs. 25c, 50 lbs. 45c, 100 lbs. 75c, 500 lbs. \$3.25. Special prices on large quantities.

### FOUST'S HEALTH GRIT.

Stands pre-eminent alone, as the highest and only high class grit available to the breeder of high class pigeons. It contains peculiar and unique special properties which no other grit contains; properties whose functions appear to be the rearing of high-class youngsters, which are so difficult, under ordinary circumstances, to bring to full maturity. Price: 5 lbs. 20c, 10 lbs. 30c, 25 lbs. 65c, 50 lbs. \$1.15, 100 lbs. \$2.00.

### HEXAGON POULTRY NETTING.

More of this netting is used for poultry yards than any other made. It gives first-class satisfaction, rolls out smooth and is practically indestructible. After the fabric is woven it is given a heavy coating of zinc, which prevents rust, and this in combination with great tensile strength, makes it the best poultry netting on the market.

Each roll 150 feet long. The two inch mesh, which is used for old fowls we furnish in No. 19 wire. The one inch mesh, which is used for little chicks, we furnish in No. 20 wire. Either mesh furnished in the following widths and weights:

2 in. Mesh, No. 19 Wire. 1 in. Mesh, No. 20 Wire.

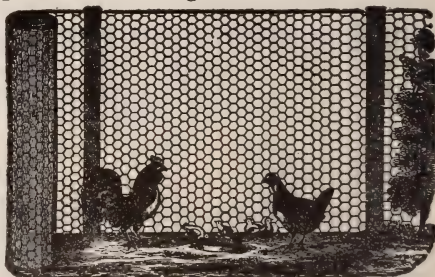
Width of Netting	Weight (About)	Per Roll Price	Width of Netting	Weight (About)	Per Roll Price
12 inches	10 lbs.	\$0.90	12 inches	19 lbs.	\$1.90
18 inches	15 lbs.	1.35	18 inches	29 lbs.	2.85
24 inches	21 lbs.	1.80	24 inches	38 lbs.	3.75
30 inches	25 lbs.	2.25	30 inches	48 lbs.	4.70
36 inches	31 lbs.	2.70	36 inches	57 lbs.	5.60
42 inches	36 lbs.	3.15			
48 inches	40 lbs.	3.60			
60 inches	50 lbs.	4.50			
72 inches	59 lbs.	5.40			

5 per cent. discount in 5 roll lots, or more.

Price f. o. b. Milwaukee.

Less than a roll of 1 inch mesh netting 1½c per sq. ft. Less than a roll of 2 inch mesh netting ¾c per sq. ft.

Heavy Galvanized Steel Wire Staples, 10c per pound, 5 lbs. 45c.

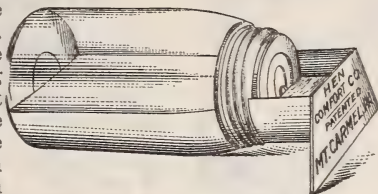




## KEYSTONE SANITARY FRUIT JAR FOUNTAINS.

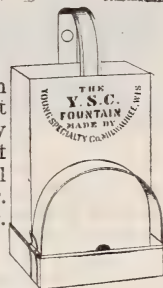
Life Savers. Labor Savors. Money Savers.

Keystone Sanitary Fruit Jar Fountains can be screwed on to pint, quart or two quart fruit jars. Set them anywhere and everywhere—on hen house floor, in brooder, pigeon loft, or canary breeding room; in fact anywhere you need them. Cannot be overturned. Water is always in sight. No more excuses for chicks going dry. Chicks cannot wade in them and soil water or drown. Keeps water clean and pure—assurance against disease bred from filthy germs. Made of heavily enameled sheet metal. Order at once—25c each; 6 for \$1.35; 12 for \$2.60. Postage 5c extra each. No jars included.



### HENFRIEND DRINKING FOUNTAIN.

Of all the watering devices for poultry placed on the market The Henfriend embodies the most good points of any. It is as easy to fill and carry as a pail. Will not drown the chicks. Made of the best galvanized iron. Holds 2½ gallons. Will not burst or crack. Good for Winter or Summer. If you buy a Henfriend you will use no other. Price, each, 75c; two for \$1.25.

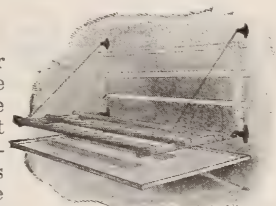


### THE Y. S. C. WALL FOUNTAIN.

Made of heavy galvanized iron. Perfectly sanitary, can be taken apart and cleaned. Water pan is fastened with hinge and spring-clips. Only wall fountain that is perfectly sanitary. Made in 3 sizes: ½ gal., 45c; 1 gal., 65c; 2 gal., 90c.

### DAVIS ANTI-LOUSE ROOST BRACKETS.

Will effectually protect your fowls from midge louse or mite ravages by making it impossible for them to reach the chicks at night. Each point of contact between the roosts and building is provided with oil cups and the mites cannot get on the roosts from the building, or vice versa.



No. 2 Roost Bracket.

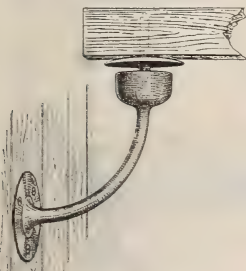
No. 1 Roost Bracket.

The roosts can be raised up out of the way for cleaning the dropping board, or they can be taken out of the building by merely drawing out the spring cotter pins with which the brackets are put together.

#### Prices:

No. 1 or Single Roost Style—Brackets only: Per pair, 75c; three pairs, \$2.00; six pairs, \$3.50; twelve pairs, \$6.25.

No. 2 or Multiple Roost Style—Brackets complete without roosts: Per set, \$1.25; three sets, \$3.25; six sets, \$6.00; Twelve sets, \$11.50.



### CYPHERS LICE-PROOF PERCH SUPPORT.

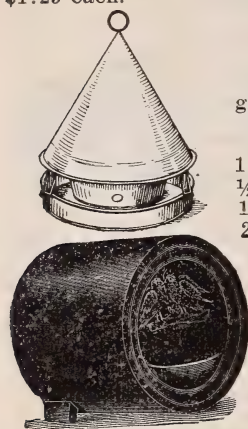
These supports are manufactured of cast iron and with ordinary care will last a lifetime. They are cheap in price, easily put up and if once used will always be used. They are attached to the wall with screws. The oil cup is covered with a cap to prevent accumulation of dust. Fill each cup with liquid lice killer. When the little cup is full, it is impossible for lice to pass from the walls of building to the roosts, or from the roosts to the building.

Prices: Per pair, 25c; postpaid, 40c; per dozen single hangers, \$1.20.



## SANITARY PIGEON FOUNTAIN.

Pigeons cannot roost on it. Easily taken apart and cleaned. Pan is attached to top by strong spring-clip. Made of heavy galvanized iron. Capacity two gallons. Price, \$1.25 each.



## SANITARY STONEWARE FOUNTAIN.

Made in two parts. Easy to clean, being glazed on inside and outside.

Four sizes at the following prices:

	Weight.	Each.	½ doz.	1 doz.
1 qt. size....	3 lbs.	\$0.20	\$1.10	\$2.00
½ gal. size...	6 lbs.	.25	1.35	2.50
1 gal. size...	8 lbs.	.35	1.80	3.50
2 gal. size...	13 lbs.	.45	2.40	4.50

## W. R. STONEWARE FOUNTAINS.

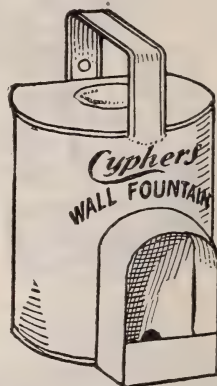
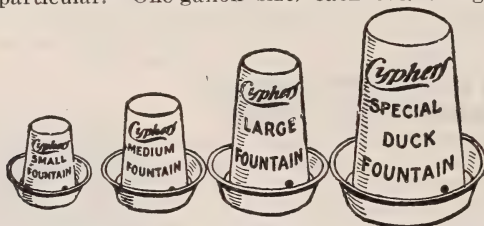
Unexcelled for poultry and pigeons. Filled with cold water in summer it remains cool all day; or in winter, if filled with warm water will retain the warmth a long time.

	Weight.	Each.	½ doz.	1 doz.
½ gal. size.....	4 lbs.	\$0.25	\$1.35	\$2.50
1 gal. size.....	8 lbs.	.35	1.80	3.50
2 gal. size.....	12 lbs.	.45	2.40	4.50

## CYPHERS WALL FOUNTAINS.

These fountains are something new and extra serviceable in the way of poultry fountains. One side of the back is flattened so that it can be hung on the wall of a building, or against an upright post or board at any height.

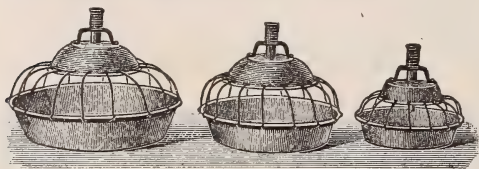
Made of the best galvanized iron, and guaranteed to last many years with proper treatment. We recommend them as first-class in every particular. One-gallon size, each 50c. two-gallon size, each 75c.



## CYPHERS GALVANIZED IRON DRINKING FOUNTAINS.

Made in two parts. Easily cleaned and will not burst from freezing.

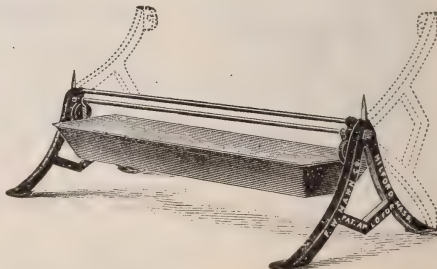
Small size, capacity 1 quart.....	each, \$0.18	six, \$0.90;	1 dozen, \$1.75
Medium size, capacity 2 quarts.....	each, .25	six, 1.25;	1 dozen, 2.10
Large size, capacity 3½ quarts.....	each, .35	six, 2.00;	1 dozen, 3.50
Special duck size, capacity 8 quarts.....	each, .50	six, 2.50;	1 dozen, 4.50



## HALLOCK'S FOOD OR WATER HOLDER.

The contents of the dish are protected by a wire screen which prevents fowls from polluting their food or water.

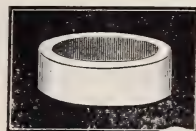
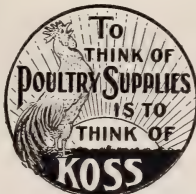
Prices: Small (1 gallon) 75c each; medium (2 gallon), \$1.00 each; large (3 gallon) \$1.25 each.



## SWINGING FEED TRAY FOR POULTRY.

Saves all waste of food. Weight of hen tips the tray and throws her off. Upper rod tips up also if hen tries to roost over pan. Trays 6½ inches wide, 3 inches deep, and made from one piece of galvanized iron, water tight, will not rust. Price, 18 inch, \$1.00; 27 inch. \$1.25; 36 inch, \$1.50.





## STONEWARE RABBIT FEEDER.

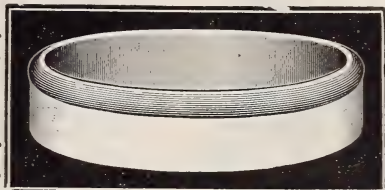
Size  $7\frac{1}{4}$  inches in diameter,  $2\frac{1}{8}$  inches deep. Heavy glazed ware. Each 10c; \$1.00 per dozen.

## STONEWARE DOG FEEDER.

Size 11 inches in diameter, 4 inches deep. Weight 7 lbs. each. Dogs cannot upset this feeder. Each 20c; \$2.00 per dozen.

## STONEWARE PIGEON BATH.

Thoroughly sanitary, glazed. A necessity for every pigeon breeder. Two sizes, 12 inch baths, 20c each; 16 inch baths, 35c each.



## PIGEON NEST BOWLS.

These nests are moulded from clay and make an ideal nest for pigeons. Price, 10c each; per dozen 75c; 100 for \$6.00.



## STERLINGWORTH SALT CAT.

Sterlingworth Salt Cat is a scientific combination of those aromatic and tonic properties contained in such seeds and roots as gentian, anise, coriander, etc., combined with sulphur, charcoal, limestone, salt, bone and other materials that are generally recognized by pigeon keepers as aiding digestion, promoting good health and egg production in pigeons and game fowls.

Sterlingworth Salt Cat is cast in brick form of sufficient consistency to hold the component parts in a solid mass, and is encased in pasteboard boxes as a protection against breakage.

Price, per brick, 10c; by mail, 30c; per dozen, \$1.10.



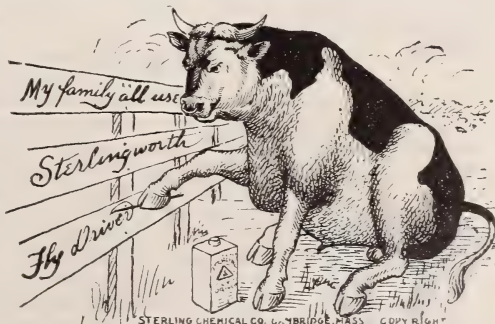
## STERLINGWORTH FLY DRIVER AND GERM DEATH.

Completely protects cattle and horses from all winged pests. It is non-poisonous, harmless, easily applied and lasts longer than any other Fly Driver sold for three times its price. It does not burn or gum the animal's coat, or contaminate milk, and is equally good for horses as for cattle.

For destroying foul odors and disinfecting diseased quarters it will be found not only a most satisfactory article, but moderate in cost. It possesses valuable antiseptic qualities and is an excellent deodorizer and germ killer.

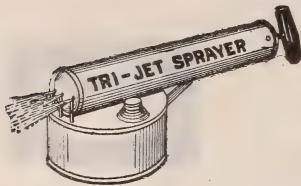
We guarantee it to comply with the National Food and Drugs Act of June 30, 1906. Serial Number 6654. Try a can and you will say that it is not only the cheapest but the best Fly Driver you have ever used.

Prices: One quart can makes two gallons Fly Driver, 60 cents; (costs 30 cents per gallon ready to use). Two quart can makes four gallons. \$1.00; (costs 25 cents per gallon ready to use).



STERLING CHEMICAL CO. L. BRIDGE, MASS. COPY RIGHT





etc.; in fact, wherever a sprayer is needed. These sprayers are light, strong, compact and well made. Each is tested with an automatic spray pump before it leaves the factory. We recommend this sprayer for spraying Cyphers Lice Paints, Lee's Lice Killer, Napcreol, etc., described elsewhere in this catalogue. Price, each, 75c.

### TRI-JET SPRAYERS.

These little Sprayers have met with a large sale since their introduction. They are needed by every poultryman and farmer, and should be in every household. Great advantage is derived by the use of these sprayers in exterminating potato bugs, tobacco, corn, tomato and currant worms, and all plant insects; also in killing lice in poultry houses. They are used extensively on horses, cattle and swine, and for spraying clothes, carpets, cigar wrappers,

### LITTLE GIANT SPRAY PUMP.

For Whitewashing, Window and Buggy Washing, Tree Spraying.

Many poultrymen have become tired of whitewashing their poultry houses in the old way—with a brush—and are looking for an effective spraying pump, at low cost, that will do the work satisfactorily and with far less trouble. We offer such a pump in the Portable Brass Spray Pump illustrated herewith. This pump has a brass cylinder and air chamber, hence will not corrode. It has a steel rod and is furnished complete with foot rest and discharge holes. It is designed to set in a pail or vessel of water with the foot rest outside. It is also arranged to discharge a fine jet in bottom of bucket. This answers the same purpose as an agitator, keeps the whitewash or other mixture thoroughly mixed, and is especially recommended for whitewashing, spraying trees, bushes, flowers, etc. Price, complete, \$3.75.

### KNAPSACK AUTO-SPRAY.

Sold under a positive guarantee to give satisfaction or money refunded. A self-operating or automatic compressed air sprayer. An excellent whitewashing outfit. This sprayer has nozzle, stop cock and fittings turned from solid brass, with deep cut threads, three-ply rubber hose; the pump and valves are entirely of brass where they come in contact with the solution. All cast iron parts are malleable iron; the carrying strap is made of eight-ply halter web. The pump is fitted with an improved valve, and take-out and put-in sleeve, which prevents damage or accident to the plunger and packing.

Little Giant.

Price, Knapsack Auto-Sprayer, Galvanized Steel Tank.....\$4.50  
 Price, Knapsack Auto-Sprayer, Brass Tank..... 6.00  
 "Auto-Pop" Special Nozzle, each..... 1.00  
 2 ft. Extension Pipe, each..... .25

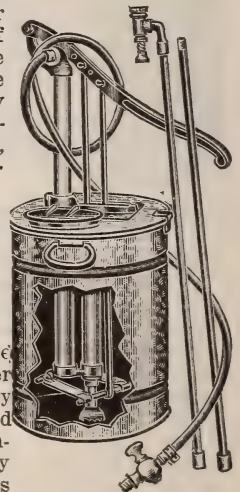
### THE No. 3-B AUTO-SPRAY.

Will apply whitewash and cold water paints to any surface more rapidly and thoroughly than ten men with brushes. No sprayer manufactured develops greater power, hence it will handle any solution that will work in any other sprayer—in fact, any liquid which can be formed into a spray. Whitewashing poultry houses, stables, cellars, factory walls, and so forth, are very simple operations with this "Auto-Spray" No. 3-B. Price, complete outfit, including 8 gallon galvanized tank, 8 feet of three-ply discharge hose, 8 feet iron extension pipe, and latest pattern Vermorel nozzle, \$12.00.



### STRAINER FOR SPRAYERS.

This funnel has an 8 inch mouth, and is 5 inches deep, exclusive of strainer. The strainer is made of brass wire cloth, and is of sufficient capacity to strain solutions readily. The funnel is made of copper and will last forever. Price, \$1.00.

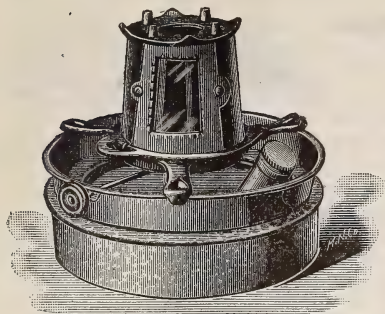


No. 3-B Auto-Spray.

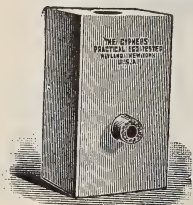


**CYPHERS SAFETY BROODER STOVE.**

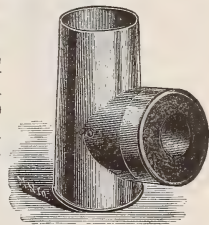
These stoves are positively without an equal. The water-pan to the Cyphers Brooder Stove holds nearly a quart, which extends over the entire surface of the oil bowl, thus placing a sheet of cold water 1 inch to 1½ inches in thickness between the flame jets and the oil bowl. By this arrangement all danger of overheating the oil is removed and we have a perfectly safe brooder stove that can be relied upon. This stove furnishes twice as much heat as the ordinary brooder lamp, and is much more safe. Height 7½ in., greatest width 10½ in. Price of Cyphers Safety Brooder Stove, each, \$1.75.

**CYPHERS PRACTICAL EGG TESTER.**

Cyphers Practical Egg Tester is the standard tester in use on large duck and broiler farms, and embodies the best ideas to date. Is 18 in. high, 10 in. wide and 10 in. deep, and is equipped with an extra strong reflector, and a lamp of superior quality. Price, \$1.25.

**CYPHERS X-RAY EGG TESTER.**

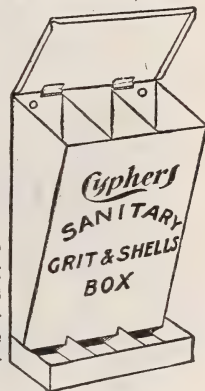
This is the standard tin X-Ray Egg Tester, such as is supplied with every Cyphers Incubator. For testing small numbers of eggs it is very effective. It can be used on any ordinary house lamp. Price of X-Ray Egg Tester, 25c.

**CYPHERS SANITARY GRIT AND SHELL BOXES.**

These boxes work a great saving in grit, bone, charcoal and poultry foods that are fed in this manner. Thoroughly practical. Well made from heavy galvanized iron with three compartments and hinged cover lid. Price, each, \$0.50.

**CYPHERS MEDICINE CASE OF STANDARD POULTRY REMEDIES.**

Put up in a neat, strong case of 10 remedies. Each lot labeled showing dosage and the diseases, which its contents will prevent or cure. Complete directions on each vial. These remedies are used extensively by experienced poultrymen.



**Remedy No. 1**—Useful in all catarrhal colds of poultry having rattling in the throat as a prominent symptom.

**Remedy No. 2**—Valuable for all sudden colds, with snuffles, water discharge from eyes and nostrils, and much sneezing. Prevents and cures roup.

**Remedy No. 3**—For chicken pox and bumble foot, promotes rapid healing of the sores. Cures chronic catarrhal colds of poultry having a croupy cough.

**Remedy No. 4**—Useful in all diarrhoeas of poultry and particularly in cholera. It is best used in drinking water, and will cure the most obstinate cases.

**Remedy No. 5**—Will cure diphtheritic roup and all forms of canker.

**Remedy No. 6**—For all forms of indigestion and liver diseases in poultry. It will cure sour crop, indigestion and some forms of crop-bound.

**Remedy No. 7**—Useful in egg-bound, and in eye diseases of poultry accompanied by the swelling of one eye, with a collection of yellow matter under the lids. This remedy has been successfully used to promote healthful action of the egg organs, and start hens laying that have delayed egg production after moulting.

**Remedy No. 8**—For rheumatism and cramps in fowls, particularly when accompanied by swollen legs and difficulty in walking.

**Remedy No. 9**—Useful to get rid of worms and other intestinal parasites.

**Remedy No. 10**—Used with great success for the cure of the disorders of the egg organs, which cause soft-shelled eggs. It promotes a healthful condition of the reproductive organs.

Price of complete set of ten remedies \$2.00. Single vials of 100 tablets, in suitable mailing cases, 25c each.

Orders separate vials by number.



## "NEPONSET" ROOFING AND LINING PAPERS.

Water tight, air tight, frost tight, vermin proof—actually and fully.

"Neponset" is made in two styles, each adapted to certain uses. One is the "Neponset" Red Rope, which is used for roofing, siding, covering and carpeting. The other is "Neponset" Black Sheathing, and is used for lining and insulating and where the Red Rope proves too expensive.

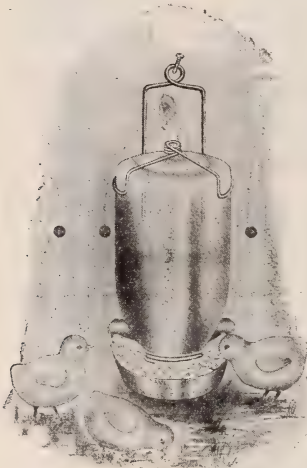
"Neponset" is not a coated paper, but the same all through. It is water tight; this fits it for roofing. It is impervious to air; this fits it for siding. It is a high non-conductor; this fits it to take the place of back plaster as a defense from the sun in summer and the cold in winter, and also makes it invaluable for all insulating purposes.



"Neponset" Red Rope Paper, rolls 36 in. wide, per roll of 100 square feet.....net, \$1.25  
 "Neponset" Red Rope Paper, rolls 36 in. wide, per roll of 250 square feet.....net, 2.75  
 "Neponset" Red Rope Paper, rolls 36 in. wide, per roll of 500 square feet.....net, 5.00  
 Black "Neponset" Water Proof Building Paper, rolls 36 in. wide.  
 Per roll of 250 square feet.....net, \$0.90 | Per roll of 500 square feet.....net, \$1.75

## DAVIS FOOD AND WATER FOUNTAIN.

This is the neatest fountain on the market and the only fountain which can be satisfactorily used for either water or grit, oyster shell, etc. Can be used with any size bottle or with pint, quart or two quart glass jars. It is easily cleaned and filled, is simple in construction, and we guarantee them to give satisfaction. Price, not including bottles or jars, 25 cents each; per dozen, \$2.75.



Davis Food and Water Fountain. mixtures, holding about six quarts, and a small one for beef scraps, holding about three quarts.

Price .....75 cents

## DRY-FOOD HOPPER.

Cyphers Dry Food Hopper is constructed of heavy galvanized iron. Like the grit and shell box it has two compartments, a large one for grain



mixtures, holding

## FULL-NEST EGG FOOD.

Everybody wants eggs when prices are high. They can get them by using Full-Nest Egg Food. An increase of eight eggs a month will pay for a 42-ounce package which will bring you several times that number of extra eggs. Full-Nest Egg Food is the Standard condition powder for all ages of poultry. It stimulates and invigorates, but unlike other tonic foods, it also builds up the system and keeps it up! Full directions for use in every package. Prices: 42-oz. package, 25c; 25-lb. pail, \$2.00.





**MANN'S GREEN-BONE CUTTERS.**

**Warranted Against Breakage. Guaranteed to Give Satisfaction. Simplest in Construction. Never Get out of Order.**

New design, enlarged table, new device to control feed, you can set it to suit any strength; never clogs.

A Standard Machine, easy and rapid cutting, feeds automatically and leaves both hands free to operate.

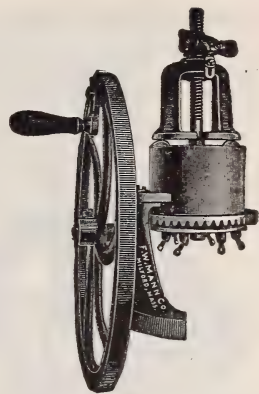
**REMEMBER.**

Green bones are tough and no matter how perfect the machine is, you want them large enough to cut for your flock easily.

**Don't Get too Small a Size.**

**PRICE LIST.**

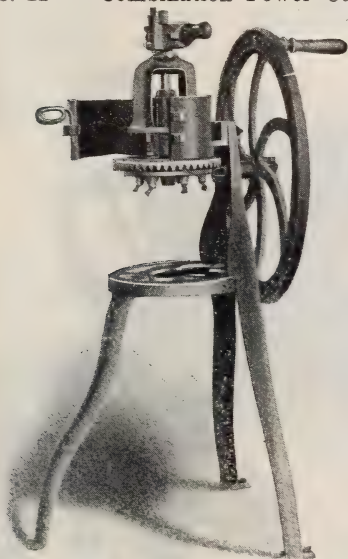
No. 5C	—With Crank Handle.....	\$ 6.00
No. 5B	—With Balance Wheel.....	8.00
No. 5BM	—With Balance Wheel and Iron Stand.....	10.40
No. 7	—With Balance Wheel.....	12.00
No. 7½	—Combination Hand or Power Cutter.....	16.00
No. 9	—Standard Bone Cutter.....	18.40
No. 11	—Combination Power Cutter.....	26.00



No. 5B, weight 55 lbs.

The Mann's Bone Cutter cuts more rapidly than any other; its knives are in action all the time. The Mann's has a perfectly self-governing automatic feed. You do not have to use one hand for controlling the feed—a tiresome, tedious, awkward process. You do not have to take the machine apart to clean the plates or adjust the knives. You drop the bone into the open cylinder. There is no packing, no fastening, no bother and no arranging. You simply toss in the bone on one side or both sides of the partition, as you like, drop the follower in place, clasp on the feed handle, and you are ready for business, with both hands free to relieve each other in turning, if you so desire. The feed is both automatic and self-governing, a feature not successfully accomplished by any other bone cutter.

Mann's Green Bone Cutter No. 7, for Flocks of 100 to 200 Hens. Price.....\$12.00



Mann's Green Bone Cutter No. 7.

in a minute. All parts are made from the very best Galvanized Iron and will last a lifetime. For either poultry or pigeons. Water remains perfectly fresh as it is not confined with foul air as in other makes. In fact it is the **Blue Ribbon Fountain**. It leads them all. Prices—Three Qt. 75c; Six Qt. \$1.00; Eight Qt. \$1.25.

**AMERICAN FOUNTAIN HEATER.**

See illustration. The lamp in this heater will burn for a long time and consume very little oil. The heater is made in three sizes to fit the three fountains. Price, for 3 qt. 50c; for 6 qt. 60c; for 12 qt. 75c.

**AMERICAN SANITARY FOUNTAIN.**

The greatest labor saver known. Is filled at the top, will not tip over or drown the chicks. Is perfectly Sanitary in every respect. Positively automatic in action. It can be cleaned

**THE AMERICAN FEEDER.**

The most practical Feed, Water or Mash Trough on the market to-day. It can be used between two pens or hung upon the wall. Will not rust or leak. Is made of galvanized iron and tinned steel wire. The spring guard prevents the chicks or fowl from polluting the food or water.

The Trough is slid out of the end of guard. They cannot turn it over in any manner or waste the contents. Saves 25 per cent. in food, and every bird gets its share. Made in three sizes:

3 in. Trough, 18 in. long.....	\$0.50
4 in. Trough, 24 in. long.....	.75
5 in. Trough, 36 in. long.....	1.00



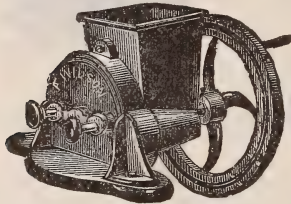


## LIGHTNING LICE KILLING MACHINE.

Put chickens in the cylinder, turn it slowly and they will stir up the powder so as to completely cover themselves with it. Price, each, \$3 00

## LIGHTNING POULTRY BITS.

Stops feather pulling instantly. Each 10c, \$1.00 per dozen.

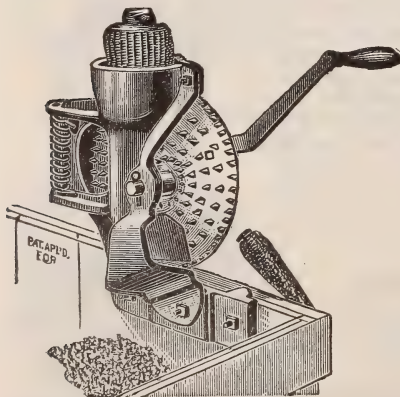


## DRY-BONE AND SHELL MILL.

This is one of the handiest appliances in use. It is the best thing for grinding dry bone, oyster or clam shells, coarse grains like corn, charcoal, etc. It is a well-made mill, and thousands of them are in successful use. We have never yet received a complaint from anyone to whom this mill has been sold. The low price at which it is sold places it within the reach of every poultryman, and it will pay for itself in less than one year's time. Diameter of hand wheel, 20 inches. \$4.50 each.

## SILVER CLOVER CUTTER.

This machine has been specially designed for cutting clover, alfalfa, etc., for feeding poultry. It has a heavy fly wheel, which insures easy running, and it will cut faster than machines costing about twice the money. The cutting plate is adjustable, allowing the operator to keep the cutting device in the best possible condition. The throat of the machine is wider than any other cutter of the kind, giving more room to spread out the clover, which makes the machine cut very much easier than machines with a narrow throat. This machine has four 8 in. solid center spiral knives and cuts  $\frac{1}{8}$  inch in length. The length over all is 24 in.; length of box 18 in.; width of box at largest end 10 in.; width of box at throat 8 in. Will cut a bushel of clover in ten minutes. Weight 30 lbs. Price, \$5.50.



## "EASY" CORN SHELLER.

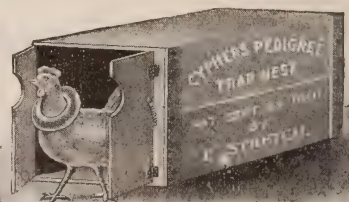
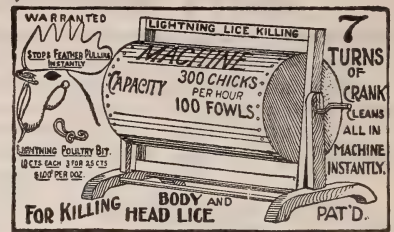
Simple, strong, convenient, cheap. Weight 15 pounds. Capacity, 8 to 10 bushels per hour. A sheller that is portable and can be used in winter evenings near the kitchen fire, or to shell corn for poultry, pop corn, seed corn and other purposes. Is in demand even by those who own a large-sized sheller. It is very simple, nothing to get out of order and will last an unlimited length of time.

Price, each .....\$1.00

## CYPHERS PATENT PEDIGREE NEST.

Not only closes the nest to other hens, but also marks the hen and lets her out, and her number tells which nest she laid in, thus avoiding the hen being kept in nest until the keeper comes along to liberate her.

No. 1—For Bantams .....each, \$1.25  
No. 2—For Leghorns, etc.....each, 1.50  
No. 3—For Americans and Asiatics....each, 1.75





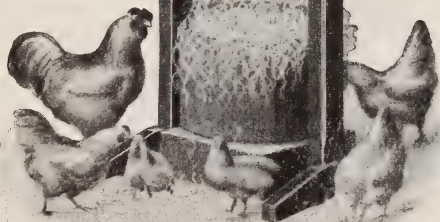
## BANNER ROOT CUTTER, No. 7.

Made expressly for poultrymen. It quickly cuts the vegetables into long, round, ribbon-like slices that resemble a bunch of angle worms, which fowls readily eat. The value of this kind of food once or twice a day, as an egg producer is unequalled. It also puts the fowls into a fine, healthy condition, acting as a gentle tonic and laxative. This machine will pay for itself in a short time. Price, \$5.00.

## CYPHERS ROUP CURE.

Positively guaranteed remedy for the cure and prevention of this dreaded disease. Also prevents colds and is unequalled for canker, especially in pigeons.

One 50c package makes 25 gallons of medicine. One \$1.00 package makes 75 gallons of medicine. Directions on each package. Price: Small size 50c; large size \$1.00, postpaid.



## LEE'S LICE KILLER.

The use of this preparation has become so universal, and results are so satisfactory, that most poultry raisers would not know how to keep house without it. A can of Lee's Lice Killer, and a few minutes work in applying it to the roosts, means all the expense and labor now necessary to keep the fowls free from both mites and body-lice. 1 quart 35c, 1/2 gal. 60c, 1 gal. \$1.00, 5 gals. \$4.00.

## LEE'S EGG MAKER.

Lee's Egg Maker is one-half granulated blood (deodorized). The other half consists of powdered roots, salts and spices mixed in proportion as most needed and best adapted to the health and productiveness of poultry. 42 oz. package, 125 feeds for 10 fowls 25c, 25 lb. pail \$2.00.

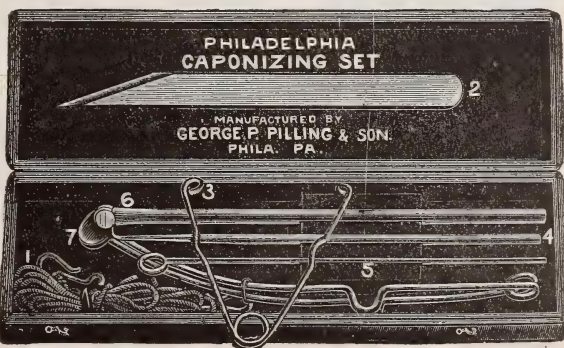
## LEE'S GERMOZONE.

For Roup, Canker, Inflammation of the Throat, Cholera or Bowel Complaint. It pays to give a little Germozone in the drink two or three times a week, even though there be no sign of sickness. It disinfects the drinking vessels, wards off colds, roup and cholera, and prevents sickness. Price, 50c.

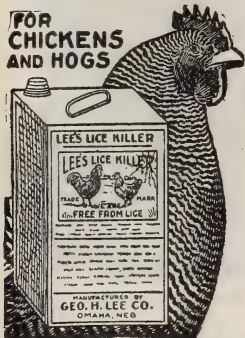
## CAPONIZING

## INSTRUMENTS.

These instruments are in demand, especially throughout the west, where caponizing pays handsome profits. We recommend and offer for sale the Pilling instruments, price, per complete set with instructions, in pasteboard box, \$2.50, in velvet case \$2.75. Instructions, fully illustrated, accompany each set of instruments. The prices quoted cover postage.



FOR  
CHICKENS  
AND HOGS





## NAPCREOL.

A Fluid Disinfectant and Deodorant.

(Non-poisonous.)



Napcreol is unexcelled for disinfecting poultry houses and runs, stables, dog kennels, toilets, or any place where a good germ or odor destroyer is needed. One gallon will make 100 gallons of disinfectant.

It is a reliable home remedy for all germ diseases affecting poultry. Its use prevents disease. It will cure roup, diphtheria, cholera, chicken-pox, sore eyes, canker, scaly legs, favus and diarrhoea. It will destroy disease germs, mange, parasites, fleas, mites, lice, ticks and worms.

Put up in half-gallon and gallon cans with full directions for use on each package. Price: half-gallon can 85c, gallon can \$1.50.

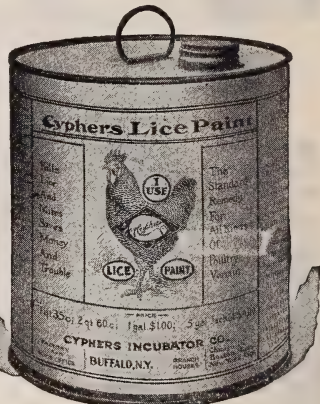
### CYPHERS LICE PAINT.

Cyphers Lice Paint is a scientifically compounded preparation for killing lice, mites and other parasites on fowls, also for the lice and ticks on sheep, hogs, horses and cattle.

The vapor which arises from the paint is what does

the work. The vapor is lighter than air and contains an odor which permeates the plumage, and while not obnoxious to persons or harmful to fowls or animals, is deadly to lice, mites and ticks. The easiest of any lice killer to apply, stronger, (thus more effective) and therefore the most economical preparation for the purpose.

Prices: 1-qt. cans 35c, 2-qt. cans 60c, 1-gal. cans each \$1.00, 5-gal. wood-jacket can \$4.00.



### CYPHERS LICE POWDER.

A common complaint has been that lice powders are only strong enough to drive lice but do not kill. As soon as the powder loses its strength the lice return to the hen and she is no better off than before. In offering Cyphers Lice Powder, we present a powder that is stronger than any other preparation. Contains no carbolic acid or other chemicals which will injure the fertility of the eggs.

5 ounce package (trial size)...	\$0.10	Postpaid...	\$0.15
15 ounce box.....	.25	Postpaid...	.40
48 ounce box.....	.50	Postpaid...	1.00
100 oz. package (by express at customer's expense)	1.00		

### LAMBERT'S DEATH TO LICE.

A Disinfectant Insect Powder.

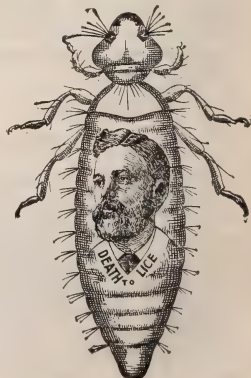
For lice on setting hens, laying or exhibition stock. Does not soil the plumage yet purifies and cleanses down to the skin. Price: 5-oz. box 10c, 15-oz. box 25c, 48-oz. package 50c, 100-oz. package \$1.00.

### DEATH TO LICE OINTMENT.

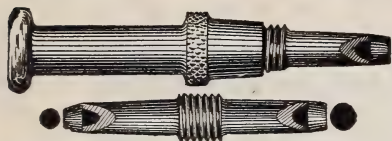
Especially adapted for head lice on children and chickens. Recommended also for chiggers, scaly shank on fowls, etc. 10 and 25 cents per box, postpaid.

### DEATH TO LICE SPECIAL.

In powder form for dissolving in coal oil or kerosene. Will make one of the best Liquid Louse Killers on the market. Keep dry and mix as wanted. Sample (4-oz. box), enough to make 1 quart, 10c. 16-oz. box 25c, makes 1 gallon.



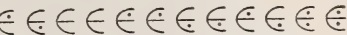
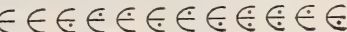


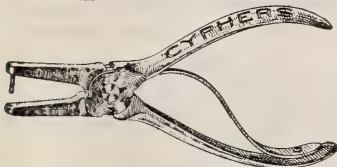
**DAVIS' CHICK MARKER.**

Punch is reversible and cuts two sizes as shown, giving you practically two tools for the price of one. Handle is nicely nickel plated and polished and the Marker complete only weighs  $\frac{1}{2}$  ounce.

You should mark your chicks as soon as they are taken from the nest by punching a hole in the web between the toes and keep a record of the

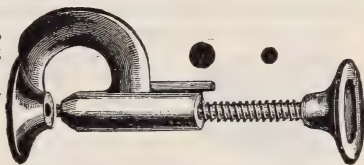
marks. This will serve to identify them until they are old enough to be marked with leg bands. The diagram shows a number of different marks which may be used. This method enables you to keep track of the age and parentage of chicks and furnishes a means of identification in case they are stolen. Order one today. Price 25c each, three for 60c postpaid.

Left Foot   
Right Foot 

**CYPHERS PERFECT MARKER.**

Makes a good, clear, clean cut, and does not mutilate the web, as do many cheaper punches.

Price 50c postpaid.

**CLIPPER POULTRY MARKER.**

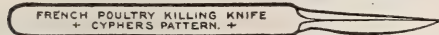
Price, 25c each, postpaid.

**JUMBO POWDER GUN.**

This Insect Powder Gun has been made to meet a demand for as large a gun as can be held in the hand. The bottom, or spout part, as will be seen, screws on or off, and makes a large opening for filling with powder. Just the thing for applying Cyphers Lice Powder. Price, each, 20c, postpaid, 25c.

**POULTRY KILLING KNIFE.**

Cyphers Special Pattern.



Every poultry raiser who kills and dresses for market, either chickens, ducks, geese or turkeys, should own one of these knives. This knife penetrates the brain in such a manner that the feathers loosen and come off easily. They are made of finely tempered instrument steel, with nickel handle, and will last a lifetime. If you have half a dozen or several hundred fowls to kill and dress for market, one of these knives will prove a highly satisfactory investment. Price, 50c.

**PORCELAIN NEST EGGS.**

These eggs are made of first-class flint glass, they do not break easily and will last a life-time. Prices, two, 5c. Per dozen, 25c.

**OVINAPHTHOL NEST EGGS.**

Our Ovinaphthol Lice Killing Nest Egg is the standard combined nest egg and lice killer. By simply using it in the nests in the same manner as any ordinary nest egg is used, laying hens are ridged of lice and mites and are able to occupy the nests with comfort. The use of this nest egg insures absolute freedom from all kinds of insect pests in the nest. They are always at work, safe to use and certain in results. Being prepared with great care for this special purpose they will last a long time and always retain their effectiveness. This makes them the most inexpensive medicated nest egg that can be used. They are standard size eggs, tinted a natural brown color.

Prices of Ovinaphthol Nest Eggs, each 10c, Per dozen, 75c.

**WIRE NESTS.**

These nests are strongly made from heavy japanned steel wire and will last a lifetime. They are intended to fasten to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean and are far superior to wooden boxes. Prices, each, 15c. Per dozen, \$1.50. Special prices for large quantities.





## LEG BANDS.

### CLIMAX LEG BANDS—THE "STAY ON" KIND.

They are in general use by leading poultrymen and poultry associations, and their immense sale attests their popularity. Rings are made of spring brass and the tags are of aluminum.

Sizes: No. 1,  $\frac{1}{2}$  in.; No. 2,  $\frac{5}{8}$  in.; No. 3,  $\frac{3}{4}$  in.; No. 4,  $\frac{7}{8}$  in.; No. 5, 1 in.; No. 6,  $1\frac{1}{8}$  in. Always give sizes wanted, or state breed of fowls bands are to be used on. They are not made in pigeon sizes.

Prices, postpaid: Per doz. 15c; per 25, 30c; per 50, 45c; per 100, 75c. Samples 3c. Discounts on larger lots.

Sizes used for different breeds: No. 1, Bantams and Small Mediterraneans. No. 2, Mediterranean Females. No. 3, Mediterranean Males and American Females. No. 4, Large American Females, Small American Males and Small Asiatic Females. No. 5, American Males, Asiatic Females, Small Asiatic Males. No. 6, Asiatic Males and Turkeys.



### THE SMITH SEALED LEG BANDS.

The Smith Sealed Leg Band makes positive identification of the banded bird possible. When sealed on, and the band number and description duly entered on score card, or award card, any child that can read can pick out the bird from card and band. Smith's Sealed Leg Bands never come off when once fastened on and never can be taken off without destroying the band.

These bands are numbered in lettered series of A1 to A10000, B1 to B10000, etc. No duplicate numbers are ever made.

No. 1 Bantams and Small Mediterranean females, etc.; No. 2 ordinary Mediterranean and Pit Game females, etc.; No. 3, Mediterranean males, American females, Pit Game males and females. No. 4, American males, medium Asiatic females, turkey hens, etc. No. 5, ordinary large Asiatics and Tom Turks, etc. No. 6, extra large Asiatics and very large Tom Turks, etc.

Prices: 12, 30c; 25, 50c; 60, \$1.00; 100, \$1.50; 250, \$3.50; 500, \$6.50; 1,000, \$12.50.



### LEADER ADJUSTABLE LEG BANDS.



The latest in adjustable bands. Price: Per 12, 15c; 25, 25c; 50, 40c; 100, 65c.

### DOUBLE CLINCH PIGEON BANDS.



Made in two sizes as shown in illustration. Price: Per 12, 15c; 25, 25c; 50, 40c; 100, 65c.

### THE IMPROVED CHAMPION LEG BAND.



Made of aluminum, adjustable to fit any fowl, large or small. Impossible for them to come off, being held by double lock.

Price, per dozen, 15c; per 25, 25c; per 50, 40c; per 100, 70c.

### THE ECLIPSE LEG BAND.



No. 1, for Bantams and small Mediterraneans. No. 2, for Mediterraneans. No. 3, for American females. No. 4, for American males, Asiatic females, small turkeys. No. 5, for Asiatic males and turkeys. Prices: 15c per 12; 25c per 25. 40c per 50; 65c per 100.

### COLOROID PIGEON BANDS.

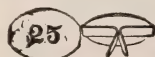
A novelty. Bands come in different colors and are numbered. Very pretty. If interested send 6c in stamps for samples and prices.



### ALUMINUM PIGEON BANDS.

Seamless, 12, 25c; 25, 45c; 50, 80c; 100, \$1.40. Open, 12, 15c; 25, 25c; 50, 40c; 100, 65c.

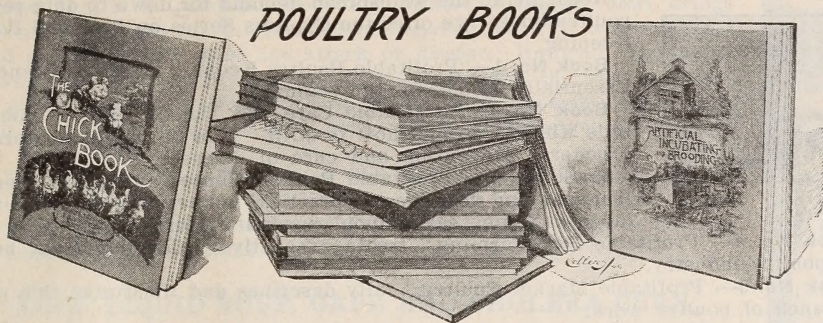
### THE PERFECT BELGIAN HARE EAR MARKER.



These ear markers are made of aluminum, and are numbered from one to one hundred. They are light in weight, durable, and never tarnish or corrode. Price of tags, postpaid, are as follows: 12 tags, 20c; 25 tags, 35c; 50 tags, 65c; 100 tags, \$1.00.



## PRACTICAL POULTRY BOOKS



**SUCCESSFUL POULTRY KEEPING** Contains, we believe, more and better practical reliable information on the subject of "Poultry for Profit" than any other book published. Compiled by the editor of the *Reliable Poultry Journal*. 160 pages, nine by twelve inches, illustrated. **Price \$1.00**

**POULTRY HOUSES AND FIXTURES** Shows plans of low-cost, practical and labor-saving houses, designs for inside fixtures, roosting coops and coops for young chicks, and appliances for the poultry yard. 96 pages, nine by twelve, ill. **Price, 50 cts.**

**ARTIFICIAL INCUBATING AND BROODING** Solves all problems of artificial incubating and brooding. Tells how to obtain strong-germed, fertile eggs, etc. Results gained from practical experience. 96 pages, nine by twelve inches, illustrated. **Price 50 cents.**

**THE CHICK BOOK** Tells how to obtain good hatches; how to feed and care for chicks of all ages; how to feed for breeders and for broilers and roasters; how to build coops; gives complete instruction in all work connected with successful chicken growing. 80 pages, nine by twelve inches, illustrated. **Price 50 cents.**

**EGGS AND EGG FARMS** Is made up of articles from experienced breeders, giving methods of housing, breeding, rearing and feeding to increase egg production; pedigree breeding. 96 pages, nine by twelve inches, illustrated. **Price 50 cents.**

**THE PLYMOUTH ROCKS** Barred, Buff and White. Gives rules of mating followed by the most successful Plymouth Rock Breeders, with a chapter and chart on line breeding. Contains color plate of each variety. 110 pages, nine by twelve inches, illustrated. **Price 50 cents.**

**THE LEGHORNS** The best illustrated standard of all varieties of the popular Leghorns. Mating schemes clearly described. Color plate of S. C. White Leghorns. 78 pages, nine by twelve inches, illustrated. **Price 50 cents.**

**ASIATICS** A work on Brahmas, Cochins and Langshans. Contains "inside" information necessary to success, with standard and ideal charts for all varieties. Color plates of Buff and Partridge Cochins. 100 pages, nine by twelve, illustrated. **Price 50 cents.**

**DUCKS AND GEESE** Gives all details of hatching, rearing, fattening and marketing. Describes labor-saving methods. 68 pages, nine by twelve, illustrated. **Price 50 cents.**

**TURKEYS** Every detail of the turkey business explained fully and clearly. Written by the world's foremost turkey growers. Contains color plate of ideal Bronze turkeys. 84 pages, nine by twelve inches, illustrated. **Price 50 cents.**

**THE BANTAM FOWL** Mr. T. F. McGrew, judge and breeder, tells how to house, feed and grow Bantams, how to treat their diseases, etc. 72 pages, nine by twelve inches. **Price 50 cents.**

**RELIABLE POULTRY REMEDIES** Points out the causes, describes symptoms and gives simple and tested remedies for all diseases. 84 pages, six by nine inches. **Price 25 cents.**



## CYPHERS POULTRY LIBRARY.



Recognizing the widespread demand for down to date reliable poultry books, we offer the Cyphers Series on Practical Poultry Keeping.

**Book No. 1**—"Profitable Poultry Keeping in All Its Branches." Essentially a book for the beginner.

**Book No. 2**—"Profitable Care and Management of Poultry," tells what to do and how to do it. How to use incubators and brooders; prevention and cure of diseases.

**Book No. 3**—"Profitable Poultry Houses and Appliances," illustrates and describes 60 practical poultry buildings and many labor and time saving poultry plant fixtures.

**Book No. 4**—"Profitable Egg Farming," treats exhaustively this important branch of the poultry industry.

**Book No. 5**—"Profitable Market Poultry," fully describes and illustrates this profitable branch of poultry work.

**Book No. 6**—"Capons for Profit," is a practical treatise on caponizing.

Price of these books is 50 cents each postpaid.

Any five of the above books will be sent to one address, when ordered at one time, for \$2.00; any three to one address, ordered at one time, for \$1.25; all six books for \$2.50.

**Book No. 7**—"Poultry Plant Construction." The best that years of experience and observation have taught specialists in the construction of poultry buildings. Price, \$1.00.

**Book No. 8**—"Profitable Poultry Feeding." Covers the subject of feeding poultry from beginning to end. The profitable feeding of newly hatched chicks, growing chicks, broilers, roasters, ducks, geese, etc. Price, 25 cents.

**The American Standard of Perfection**—Latest edition. Every progressive up-to-date poultryman wants this book. It is the law by which judges are governed in placing the awards in the showroom. Illustrated. Price, \$1.50.

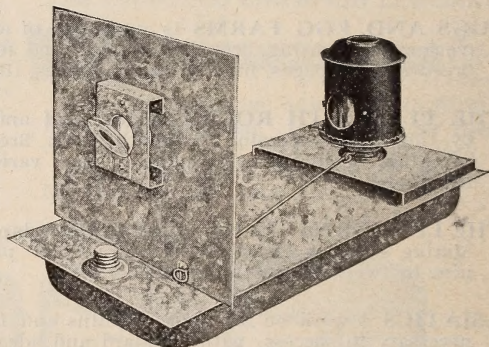
**Reliable Poultry Journal**—Undoubtedly the best poultry paper published. 68 to 168 pages monthly. Most profusely illustrated. Subscription price, 50 cents per annum. We offer it to you for 40 cents per year.

## CYPHERS INSULATED BROODER STOVES.

For those desiring to buy brooder lamps, or stoves, we offer the Cyphers Improved Insulated Brooder Stove. This new stove does away with the water jacket or reservoir required on brooder stoves usually sold for the purpose. The insulating plate of heavy galvanized iron is so placed between the burner and the oil bowl that all heat of the flame is deflected away from the oil reservoir, so that the oil remains cool at all times. The stove has a seamless bottom, hence will not leak.

Price, each .....\$1.75

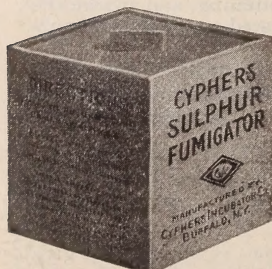
See also **Cyphers Safety Brooder Stove**, on Page 53.



## FUMIGATING CANDLES.

Cyphers Pure Sulphur Fumigating Candles are equal to any fumigating candles on the market regardless of price. They are easy to light, easy to extinguish, safe to use, and produce a vapor deadly to all infectious diseases, disease germs and insect life. If you want to kill disease germs in your dwelling—lice, mites and disease germs in your poultry houses, light one of these candles and close up the house or room tight for three or four hours. Be careful to remove all the fowls from the house or room, or they will be suffocated.

Complete, each, 15c; by mail, 25c; per dozen, by express, \$1.25



## PRATT'S FOOD FOR POULTRY.

An old, well-known food. 26 oz. package, 25c; 5 lb. package, 60c.



## KOSS' ROUP CURE.

In poultry culture every effort should be made to keep fowls in as perfect health as possible. Not only because a healthy fowl brings better returns, but for the reason that a strong, healthy, well-nourished bird can better withstand the attack of disease. However, despite all precautions, it frequently happens that they acquire the many ailments to which they are susceptible, one of the most common being Roup. This is a disease preceded by a cold, and is a contagious affection of the air passages.

We guarantee that Koss' Roup Cure will cure, and is a sure preventative if taken in reasonable time. You simply put the remedy in the drinking water, and the fowls take their own medicine. Price of package to make 25 gallons of medicine, 50 cents, postpaid.



## KOSS' LIQUID ROUP, GAPE AND CHOLERA CURE.

Every poultry raiser should have a can of it—not wait until the roup makes its appearance. It will be found a good preventative if a small quantity is put in the drinking water.

It is also a positive cure for Gapes and Cholera. Price 50 cents.



## KOSS' LICE KILLER (LIQUID).

Don't feed lice if you are raising poultry. It is not only unsatisfactory, but unprofitable. Get rid of the lice, mites, and all other pests by using Koss' Lice Killer. This is the strongest liquid lice killer on the market. Koss' Lice Killer is made under our supervision, so we can guarantee its purity and strength.

It can also be used for stock. Examine your poultry and stock carefully. If you find any signs of lice or other vermin, by all means, use Koss' Lice Killer. You cannot afford to raise lice, poultry and stock at the same time.

Directions:—Koss' Lice Killer does not have to touch the lice and mites in order to kill them. It evaporates, and the gases formed do the work. This is the up-to-date method, and is far ahead of the old way of dipping and greasing. For stock, sprinkle on the bedding and on the rubbing posts.

Prices: 1 qt. can, 35c.; 2 qt. can, 60c.; 1 gallon can, \$1.00.



## KOSS' INSECT POWDER.

Removes that itchy feeling. If you prefer the powder form of Lice Killer, use Koss' Insect Powder. Put in the nests and sprinkle in the bird's feathers. Just the thing to kill lice on young chicks and setting hens. Also kills insects on plants, exterminates chiggers, moths, ants, roaches, fleas, etc.

Prices: 5 oz. box, 10c., by mail, 15c.; 16 oz. box, 25c., by mail, 40c.; 48 oz. box, 50c., by mail, \$1.00.



## KOSS' CONDITION POWDER AND EGG PRODUCER.

Contains only egg forming food. Composed of pure materials of highest quality, scientifically compounded, thoroughly balanced and perfectly pure and free from harmful substance. Keeps the fowls in the pink of condition and enables them to bear up under the egg forming process. Full directions in each package.

Price: 2½ lb. box, 25c.; 12½ lb. sack, \$1.15.





# Koss' Bargain Collections

BIG VALUE FOR THE MONEY

FULL SIZED PACKETS

## Our Large Vegetable Garden



Consists of the following 25 Packets of our best and earliest varieties of Vegetables and one Packet of "Wild Flower Garden" and these 36 Packets we send postpaid for only \$1.00. This collection contains sufficient seed to supply a family garden with Vegetables throughout the summer and fall months.

- |                                 |                               |
|---------------------------------|-------------------------------|
| 1 Pkt. Wax Beans.               | 1 Pkt. Kohlrabi.              |
| 1 Pkt. Refugee Beans.           | 1 Pkt. Pumpkin.               |
| 1 Pkt. Early Peas.              | 1 Pkt. Curled Cress.          |
| 1 Pkt. Early Sweet Corn.        | 1 Pkt. Leek.                  |
| 1 Pkt. Pickle Cucumber.         | 1 Pkt. Watermelon.            |
| 1 Pkt. Long Green Cucumber.     | 1 Pkt. Muskmelon.             |
| 1 Pkt. Early Cabbage.           | 1 Pkt. Long White Parsnip.    |
| 1 Pkt. Late Cabbage.            | 1 Pkt. Curled Parsley.        |
| 1 Pkt. Cauliflower.             | 1 Pkt. Scarlet Turnip Radish. |
| 1 Pkt. Curled Kale.             | 1 Pkt. Long Radish.           |
| 1 Pkt. Half Long Carrot.        | 1 Pkt. Early Blood Turnip.    |
| 1 Pkt. Early Purple Top Turnip. | 1 Beet.                       |
|                                 | 1 Pkt. Rutabaga.              |
|                                 | 1 Pkt. Squash.                |
|                                 | 1 Pkt. Early Curled Lettuce.  |
|                                 | 1 Pkt. Head Lettuce.          |
|                                 | 1 Pkt. Boston Market Celery.  |
|                                 | 1 Pkt. Large Erfurt Celeriac. |
|                                 | 1 Pkt. Round Leaf Spinach.    |
|                                 | 1 Pkt. Early Tomato.          |
|                                 | 1 Pkt. Yellow Onion.          |
|                                 | 1 Pkt. Red Onion.             |
|                                 | 1 Pkt. Marjoram.              |
|                                 | 1 Pkt. Thyme.                 |
|                                 | 1 Pkt. Wild Flower Garden.    |

## THE SMALL VEGETABLE GARDEN.

This consists of 17 varieties of Vegetable Seeds and one packet of "Wild Flower Garden."

These 18 Packets we will send postpaid for only 50 cents.

- |                          |                               |                            |
|--------------------------|-------------------------------|----------------------------|
| 1 Pkt. Wax Beans.        | 1 Pkt. Curled Parsley.        | 1 Pkt. Round Leaf Spinach. |
| 1 Pkt. Early Peas.       | 1 Pkt. Scarlet Turnip Radish. | 1 Pkt. Early Tomato.       |
| 1 Pkt. Early Sweet Corn. | 1 Pkt. Half Long Carrot.      | 1 Pkt. Onion.              |
| 1 Pkt. Pickle Cucumber.  | 1 Pkt. Early Blood Turnip.    | 1 Pkt. Marjoram.           |
| 1 Pkt. Early Cabbage.    | 1 Beet.                       | 1 Pkt. Wild Flower Garden. |
| 1 Pkt. Kohlrabi.         | 1 Pkt. Purple Top Turnip.     |                            |
| 1 Pkt. Muskmelon.        | 1 Pkt. Early Curled Lettuce.  |                            |

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